Usenet Newsgroup Archive: rec.radio.amateur.digital.misc

2010

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Date span: 2010-01-04 through 2010-12-31

Source text: rec.radio.amateur.digital.misc.txt

Source item: https://archive.org/details/usenet-rec

Messages included in this PDF: 123

Messages are presented chronologically by archived date.

Binary or encoded payloads are not printed as blocks of encoded text; a placeholder appears where such material was detected. The original source text is unchanged.

1. [tapr-announce] write for PSR

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-04 01:59:33 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4B414A9C.8050606@sbcglobal.net>
Source record: 388
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

We are still seeking articles for the next issue of TAPR's quarterly
newsletter, Packet Status Register (PSR). All contributions are welcome,
so if you have anything for the newsletter, please e-mail what you have
to me. (The deadline is January 15.)

Thank you and 73,

Stan Horzepa, WA1LOU
PSR Editor

_____
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list.
Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe
from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

2. [tapr-announce] Last Call

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-10 19:48:31 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4B4A2E09.4090802@sbcglobal.net>
Source record: 389
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

Last Call!

Just a few days left and we still seek articles for the next issue of TAPR's quarterly newsletter, Packet Status Register (PSR). All contributions are welcome, so if you have anything for the newsletter, please e-mail what you have to me. (The deadline is January 15.)

Thank you and 73,

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PSR Editor

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3. Re: analizing rf signals

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-11 14:14:51 UTC
From: coupe <coupaydeville@gmail.com>
Message-ID: <ac4e0062-6b01-4a87-830f-18539aa31cf0@u7g2000yqm.googlegroups.com>
Source record: 390

```
On Dec 1 2009, 9:08 am, "Raymond BARBER" <barber.raymond...@orange.fr>
wrote:
> Am trying to write C program to use sound card to input rf signals into
> computer and then analise them. Would appreciate help on programming sound
> card etc
>
> 73
> Ray G3NEF

The problem with C, is it is a pretty low level interface to the sound
card. You basically have to build your driver around the library
calls. People have done it, but by the time they get done, they
aren't going to give it away for free. There's a bunch of code out in
the wild, and it is mostly unreadable. The ham radio stuff for linux
basically looks like a child wrote it.

I'm going to throw out some advise - get beyond C. If you are a C
programmer, then you should be writting operating systems (smile).
I've been programming in Java and C# for a number of years, and being
a high level object oriented languages, the code is much easier to
write and understand.

First you need a thread that just pulls data off the sound card and
puts it into a buffer:

/**
* Audio.java
*
* This program is free software: you can redistribute it and/or
modify
* it under the terms of the GNU General Public License as published
by
* the Free Software Foundation, either version 3 of the License, or
* (at your option) any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program. If not, see <http://www.gnu.org/licenses/
>.
*/
package dopplerradar;
```

```
import java.io.*;
import javax.sound.sampled.*;

public final class Audio {

private boolean capture;
ByteArrayOutputStream byteArrayOutputStream;
AudioFormat audioFormat;
TargetDataLine targetDataLine;
Radar parent;
Thread captureThread;
private byte[] captureBuffer;

public Audio(Radar p) {
parent = p;
capture = false;
captureThread = null;
}

public void startCapture() {
try {
stopCapture();

captureBuffer = new byte[2048 * 2]; // 16-bit PCM
audioFormat = setAudioFormat();
capture = true;

DataLine.Info dataLineInfo = new DataLine.Info
(TargetDataLine.class, audioFormat);
targetDataLine = (TargetDataLine) AudioSystem.getLine
(dataLineInfo);
targetDataLine.open(audioFormat);
targetDataLine.start();

captureThread = new Thread(new AudioCaptureThread());
captureThread.start();
} catch (Exception e) {
System.out.println("capture: " + e);
targetDataLine = null;
}
}

public boolean capturing() {
return capture;
}

public void stopCapture() {
capture = false;

if (captureThread != null) {
try {
captureThread.join();
} catch (Exception e) {
}
```

```
}

captureThread = null;
}

private AudioFormat setAudioFormat() {
return new AudioFormat(
AudioFormat.Encoding.PCM_SIGNED,
44100,
16,
1,
2,
44100,
false);
}

class AudioCaptureThread extends Thread {

@Override
public void run() {
byteArrayOutputStream = new ByteArrayOutputStream();

try {
while (capture) {
int cnt = targetDataLine.read(captureBuffer, 0,
captureBuffer.length);

if (cnt > 0) {
byteArrayOutputStream.write(captureBuffer, 0,
cnt);
parent.processAudio(byteArrayOutputStream);
}

Thread.sleep(1);
}

byteArrayOutputStream.close();
targetDataLine.close();
} catch (Exception e) {
System.out.println("Error: Audio Thread: " + e);
}
}
}
}
```

You see the routine inside the thread there called parent.processAudio (byteArrayOutputStream);

This runs in the background capturing 16 bit PCM sound clips and joining them together into a stream. When it calls processAudio it will have more than 44,000 samples per second (drinking from a hose) which is set by setAudioFormat().

```
/**
* Radar.java
*
* A Doppler Radar program using a size 2048 FFT
*
* This program is free software: you can redistribute it and/or
modify
* it under the terms of the GNU General Public License as published
by
* the Free Software Foundation, either version 3 of the License, or
* (at your option) any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program. If not, see <http://www.gnu.org/licenses/
>.
*/
package dopplerradar;

import java.io.*;
import javax.swing.*;

public class Radar extends JFrame {

public final Object mutex = new Object();
public GraphicPanel graphicPanel;
public Audio audio;
public FFT fft;
public int yScale = 1;
private double audioLevel;
private double audioFactor;
private byte[] array;
private int arraySize;

public Radar() {
initComponents();

audio = new Audio(this);
arraySize = 2048;
audioLevel = 1024.0D;
audioFactor = 1.0D / audioLevel;

fft = new FFT();
fft.initialize(arraySize);

graphicPanel = new GraphicPanel(this);
jPanel1.add(graphicPanel, java.awt.BorderLayout.CENTER);

audio.startCapture();
}
```

```
void setStatus(String s) {
statusLabel.setText(s);
}

public void processAudio(ByteArrayOutputStream stream) {
synchronized (mutex) {
Complex[] in_data = fft.inputArray(); // 2048
Complex values
array = stream.toByteArray(); // 2048 16-bit
PCM values
short v;

int n = 0;
for (int i = 0; i < (arraySize * 2); i += 2) {
v = (short) (array[i] & 0xff);
v |= (short) (array[i + 1] << 8); // big-
endian ??

in_data[n].setReal(v * audioFactor);
n++;
}

stream.reset();
fft.compute();
}

graphicPanel.displayData(fft.outputArray());
}

etc, etc...

Coupe!
```

4. Re: Last Call

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-11 16:04:31 UTC
From: coupe <coupaydeville@gmail.com>
Message-ID: <975daa7e-430a-4f22-be61-f7d13f2663b7@m26g2000yqb.googlegroups.com>
Source record: 391

By the way, there is still no link to the last PSR on the web page.
Here it is for those who might be interested:

http://www.tapr.org/psr/psr109.pdf

The webmaster is obviously too busy with other stuff I'm sure...

Coupe!

5. Re: analizing rf signals

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-11 16:27:41 UTC
From: coupe <coupaydeville@gmail.com>
Message-ID: <09eb4f99-62df-44b3-931d-4ecf12ab40f0@21g2000yqj.googlegroups.com>
Source record: 392

Oh, forgot the link:

http://connect.creativelabs.com/openal/default.aspx

This is where you need to go to start your programming research.

Coupe!

6. Re: Last Call

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 13:26:25 UTC
From: Jeff Davis <jeff@ke9v.net>
Message-ID: <slrnhkou40.iqk.jeff@sverige.freeshell.org>
Source record: 393

On 2010-01-11, coupe <coupaydeville@gmail.com> wrote:
> By the way, there is still no link to the last PSR on the web page.
> The webmaster is obviously too busy with other stuff I'm sure...

A link to the archive of ALL editions of PSR is listed prominenetly on the front page...

http://www.tapr.org/psr.html

--
jld

7. Re: Last Call

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 13:45:15 UTC
From: Rob <nomail@example.com>
Message-ID: <slrnhkov7b.kac.nomail@xs8.xs4all.nl>
Source record: 394

```
Jeff Davis <jeff@ke9v.net> wrote:
> On 2010-01-11, coupe <coupaydeville@gmail.com> wrote:
>> By the way, there is still no link to the last PSR on the web page.
>> The webmaster is obviously too busy with other stuff I'm sure...
>
>
> A link to the archive of ALL editions of PSR is listed prominenetly on the
> front page...
>
> http://www.tapr.org/psr.html

But does that page include a link to the latest edition?
Here, it doesn't.
```

8. Re: Last Call

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 15:22:21 UTC
From: Jeff Davis <jeff@ke9v.net>
Message-ID: <slrnhkp4tb.odl.jeff@sverige.freeshell.org>
Source record: 395

On 2010-01-12, Rob <nomail@example.com> wrote:
>
> But does that page include a link to the latest edition?
> Here, it doesn't.

So you are saying it is a deficit to point to a page that links to ALL
editions of PSR instead of a single link to the latest issue?

I don't follow the logic ...

--
jld

9. Re: Last Call

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 15:24:35 UTC
From: Rob <nomail@example.com>
Message-ID: <slrnhkp51j.lkg.nomail@xs8.xs4all.nl>
Source record: 396

Jeff Davis <jeff@ke9v.net> wrote:
> On 2010-01-12, Rob <nomail@example.com> wrote:
>>
>> But does that page include a link to the latest edition?
>> Here, it doesn't.
>
> So you are saying it is a deficit to point to a page that links to ALL
> editions of PSR instead of a single link to the latest issue?
>
> I don't follow the logic ...

I am saying it is a deficit to point to a page that links to ALL editions
of PSR except the latest one.

10. Looking for Howie Goldstein - N2WX

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 17:01:55 UTC
From: billg999@cs.uofs.edu
Message-ID: <7r3o83Fmr3U1@mid.individual.net>
Source record: 397

I hope this doesn't upset people here but I figure this is the most
likely place to find someone who can help me

I am trying to find a way to get in touch with N2WX in particular
to see if there is any chance of getting any of the code he wrote
long ago that ended up in the PacComm DR200 boxes. I have some
playing I would like to do with his old code and attempts to find
it have been less than fruitful. I even asked PacComm but based on
their response (the woman I spoke with was going to look around
for it) I suspect they no longer even have a copy.

Any help would be appreciated.

bill KB3YV

--
Bill Gunshannon | de-moc-ra-cy (di mok' ra see) n. Three wolves
billg999@cs.scranton.edu | and a sheep voting on what's for dinner.
University of Scranton |
Scranton, Pennsylvania | #include <std.disclaimer.h>

11. Re: Looking for Howie Goldstein - N2WX

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 17:04:14 UTC
From: Rob <nomail@example.com>
Message-ID: <slrnhkpase.ma6.nomail@xs8.xs4all.nl>
Source record: 398

Bill Gunshannon <billg999@cs.uofs.edu> wrote:
> I am trying to find a way to get in touch with N2WX in particular

Hee seems to have an address on qrz.com

12. Re: Looking for Howie Goldstein - N2WX

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-12 17:31:10 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9CFE752EF971FVeebleFetzer@216.250.188.141>
Source record: 399

In news:7r3o83Fmr3U1@mid.individual.net billg999@cs.uofs.edu (Bill Gunshannon) wrote:

> Any help would be appreciated.

http://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp

--
Bert Hyman St. Paul, MN bert@iphouse.com

13. [tapr-announce] PSR deadline

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-15 02:21:56 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4B4FD04F.9000500@sbcglobal.net>
Source record: 400
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

Friday is the deadline for the next issue of TAPR's quarterly
newsletter, Packet Status Register (PSR). All contributions are welcome,
so if you have anything for the newsletter, please e-mail what you have
ASAP.

Thank you and 73,

Stan Horzepa, WA1LOU
PSR Editor

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tapr-announce mailing list

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from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

14. QSO's in other modes than BPSK31? especially forward error correcting

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-25 10:05:59 UTC
From: Marc Heusser <marc.heusser@byeheusser.commercialspammers.invalid>
Message-ID: <marc.heusser-A1E962.11052825012010@news.uzh.ch>
Source record: 51

I managed to get on air with PSK31, and also found quite a few stations
to work on 3580 MHz.
I am interested in other modes, especially forward error correcting
ones. But I have yet to find stations using them.
Where do I need to look? (Frequencies, identifiying, etc)
As I am antenna limited, it will be Europe mainly.

Thanks in advance

73 de Marc HB9ERT

--
remove bye and from mercial to get valid e-mail
<http://www.heusser.com>

15. Re: QSO's in other modes than BPSK31? especially forward error correcting

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-28 17:41:48 UTC
From: John W <jrw>
Message-ID: <S56dnRSUOZnBUfzWnZ2dnUVZ7sSdnZ2d@brightview.co.uk>
Source record: 52

Hi Marc,

On 20m MFSK16 can be found around 14.080, Olivia around 14.105 and MT63 on
14.1095 (not much activity). Just tune slowly from 14.070 (PSK) up to
14.110 and you should hear many things other than RTTY and CW.

73
John M5AML
www.wells10000.plus.com/m5aml/
---
broadband for as little as £5.99/month
see www.wells10000.plus.com for info

16. Re: QSO's in other modes than BPSK31? especially forward error correcting

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-30 04:03:52 UTC
From: "Mike, who else?" <here@there.com>
Message-ID: <IcO8n.4453$fu3.1377@newsfe12.iad>
Source record: 53

On Mon, 25 Jan 2010 11:05:59 +0100, Marc Heusser wrote:

> I managed to get on air with PSK31, and also found quite a few stations
> to work on 3580 MHz.
> I am interested in other modes, especially forward error correcting
> ones. But I have yet to find stations using them. Where do I need to
> look? (Frequencies, identifiying, etc) As I am antenna limited, it will
> be Europe mainly.
>
> Thanks in advance
>
> 73 de Marc HB9ERT

Hey Marc,
Interested in doing Pactor or G-Tor on 20 M? I have a Kantronics Kam TNC &
would love to work some G-Tor with it. Email me direct mmuranetz (AT)
gmail (DOT) com and put Digital QSO in the title.

73 de Mike VE6HMG

17. Getting started with APRS decoding.

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-01-31 21:05:34 UTC
From: Alladin <Alladin.5abc3bb@radiobanter.com>
Message-ID: <Alladin.5abc3bb@radiobanter.com>
Source record: 54

Hi all, I need some help with decoding APRS protocol files.
First I don't have a file to experience decoding on so can someone
please post a download link for such a file here?
Second can someone please post some links here about the APRS files
construction?

--
Alladin

18. Re: QSO's in other modes than BPSK31? especially forward error correcting

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-02-01 13:11:14 UTC
From: Marc Heusser <marc.heusser@byeheusser.commercialspammers.invalid>
Message-ID: <marc.heusser-D58472.14104401022010@news.uzh.ch>
Source record: 55

In article <IcO8n.4453$fu3.1377@newsfe12.iad>,
"Mike, who else?" <here@there.com> wrote:

> On Mon, 25 Jan 2010 11:05:59 +0100, Marc Heusser wrote:
>
> > I managed to get on air with PSK31, and also found quite a few stations
> > to work on 3580 MHz.
> > I am interested in other modes, especially forward error correcting
> > ones. But I have yet to find stations using them. Where do I need to
> > look? (Frequencies, identifiying, etc) As I am antenna limited, it will
> > be Europe mainly.
> >
> > Thanks in advance
> >
> > 73 de Marc HB9ERT
>
> Hey Marc,
> Interested in doing Pactor or G-Tor on 20 M? I have a Kantronics Kam TNC &
> would love to work some G-Tor with it. Email me direct mmuranetz (AT)
> gmail (DOT) com and put Digital QSO in the title.
>
> 73 de Mike VE6HMG

Hello Mike

Unfortunately I do not have a hardware TNC, so I cannot do Pactor or
G-Tor.

Also Canada is probably out of reach with my current antenna setup :-(

73 de Marc HB9ERT

I can do whatever fldigi does:
http://www.w1hkj.com/Fldigi.html
CW

DominoEX 4
DominoEX 5
DominoEX 8
DominoEX 11
DominoEX 16
DominoEX 22

Feld-Hell
Slow-Hell
Feld-Hell-X5
Feld-Hell-X9

FSK-Hell
FSK-Hell 105
Hell-80

MFSK-4
MFSK-8
MFSK-16*
MFSK-22*
MFSK-31*
MFSK-32*
MFSK-64*

MT-63 / 500
MT-63 / 1000
MT-63 / 2000

PSK-31
QPSK-31
PSK-63
QPSK-63
PSK-125
QPSK-125
PSK-250
QPSK-250
OLIVIA
various tones and bandwidths

RTTY
various Baud Rates, Shifts, Nbr of data bits, etc.

Thor-4
Thor-5
Thor-8
Thor-11
Thor-16
Thor-22

Throb-1
Throb-2
Throb-4
ThrobX-1
ThrobX-2
ThrobX-4

Or whatever CocoaModem does:
http://homepage.mac.com/chen/w7ay/cocoaModem/index.html

- RTTY (AFSK or FSK) basic RTTY interface
- narrowband two-receiver RTTY interface
- wideband two-receiver RTTY interface

- PSK
- BPSK31

- QPSK31
- BPSK63
- QPSK63
- BPSK125
- QPSK125

- MFSK
- MFSK16
- DominoEX 4
- DominoEX 5
- DominoEX 8
- DominoEX 11
- DominoEX 16
- DominoEX 22

- Hellschreiber
- Feld Hell
- FM Hell 105
- FM Hell 245

- CW wideband two-receiver CW interface

- ASCII Radioteletype wideband two-receiver ASCII interface

- SITOR-B reception

- HF-FAX reception

- Synchronous AM reception

--
remove bye and from mercial to get valid e-mail
<http://www.heusser.com>

19. ADVERT: DSP Training in March, San Jose, CA

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-02-20 01:36:26 UTC
From: Besser Associates <info@besserassociates.com>
Message-ID: <5teun55t9fq1cl1t48kq73cj9dgmf2j94m@4ax.com>
Source record: 56
Cross-posted to:
comp.dsp,comp.speech,comp.soft-sys.matlab,rec.radio.amateur.digital.misc,rec.audio.pro,rec.audio.tech,comp.realtime

Greetings,
Besser Associates is offering their acclaimed
"DSP Made Simple for Engineers" class in
San Jose, California, on 17-19 February 2010.

This 3-day class is particularly well-suited to those involved
in RF and audio signal processing, and computer programmers,
who need to learn the fundamentals of DSP theory. Details of this
course, including target audience, learning objectives, course
outline, materials descriptions, and past student comments
are contained in this post as items "A" through "I".

To register, please contact Besser Associates at Phone: (650)949-3300.
For additional course offerings, call Besser Associates
or visit http://www.bessercourse.com/ to view our public course
catalog and current schedule.

------ Detailed DSP course information follows ------

A. BESSER COURSE TITLE:
"DSP Made Simple for Engineers"; a 3-day tutorial course
on digital signal processing (DSP) theory.

B. TARGET AUDIENCE
* The primary audience is practicing RF (and Audio) hardware
Engineers and Software Programmers who need to understand
digital signal processing (DSP) because of its
ever-increasing role in the processing of real-world signals.

* While DSP Made Simple is not a "programming course", it is
particularly well suited for computer programmers because
of their increasing need to understand DSP algorithms.

* In general, this course is beneficial to anyone involved
in the acquisition, generation, transmission, filtering,
or analysis of digital signals.

C. WHAT THE STUDENT GAINS FROM THE COURSE:
* The ability to apply DSP techniques to real-world
signal processing problems in their work.

* A solid grasp of DSP basics and the ability to move
gradually to more sophisticated DSP concepts and
applications.

* The ability to speak the language of DSP.

* Much practical information on how to optimize (streamline
the computations of) the algorithms of DSP.

* The ability to understand written descriptions (articles,
application notes, textbooks) of DSP methods used
in practice.

To register, please contact Besser Associates at Phone: (650)949-3300.
For additional course offerings, please call Besser Associates
or visit http://www.bessercourse.com/

D. COURSE OUTLINE

_____
DAY 1
DISCRETE SEQUENCES AND SYSTEMS
* Discrete Sequences, Their Notation, and Representation
* Signal Amplitude, Magnitude, Power Definitions
* Signal Processing Operational Symbols

PERIODIC SAMPLING
* Periodic Sampling and Aliasing
* Sampling Low-Pass Signals
* Sampling Bandpass Signals
* Spectral Inversion in Bandpass Sampling

THE DISCRETE FOURIER TRANSFORM
* Understanding the DFT Equation
* DFT Properties
* DFT Results Interpretation
* Shifting Theorem
* Inverse DFT
* DFT Leakage
* Use of Signal data Windows
* DFT Resolution and Zero Padding
* DFT Processing Gain

_____
_____
DAY 2
THE FAST FOURIER TRANSFORM
* Relationship of the FFT to the DFT
* FFT Input/Output Indexing Bit Reversal
* Guidance On Using FFTs With Real-World Signals
* Averaging Multiple FFTs

FINITE IMPULSE RESPONSE DIGITAL FILTERS
* An Introduction to Finite Impulse Response Filters
* Convolution In FIR Filters
* FIR Filter Analysis and Design Examples
* Phase Response of FIR Filters (Group Delay)
* Half-Band FIR Filters
* Brief Introduction to Matched Filters

* FIR Comb Filters

_____
DAY 3
INFINITE IMPULSE RESPONSE DIGITAL FILTERS
* An Introduction to Infinite Impulse Response Filters
* The Laplace Transform
* The z-Transform
* IIR Filter Design and Analysis Methods
* Pitfalls in Building IIR Digital Filters
* Cascade and Parallel Combinations of Digital Filters
* Comparison of IIR and FIR Filters

ADVANCED SAMPLING TECHNIQUES
* Quadrature Signals and Quadrature Sampling
* Quadrature Sampling With Digital Mixing
* Digital Resampling (Sample Rate Change)
* Decimation
* Interpolation
* Decimation and Interpolation in Combination

E. WHAT THE COURSE DOES NOT COVER:
The DSP Made Simple Course does not cover the hardware architecture of commercial programmable DSP integrated circuits. Likewise, while the course introduces the topic of commercially available DSP design software packages, no computer programming is performed as part of the course.

F. COURSE HANDOUT MATERIAL
The training material comprises 475 pages of class handouts. With the typical lecturer, the student must decide between taking notes, or paying attention to what the lecturer is saying. The training handout solves this "note-taking" dilemma. The DSP Made Simple training material provides a "bulletized" description of each DSP topic in addition to an abundance of diagrams. A textual description summarizing the key DSP concepts are included at the bottom of each handout page.

The highly praised DSP textbook, "Understanding Digital Signal Processing, 2/E" (Prentice Hall Publishing) will be supplied to each student. This book has been Amazon.com's top-selling DSP book for over five years.

G. COURSE LECTURER:
RICHARD LYONS is a Consulting Systems Engineer and lecturer with Besser Associates in Mt. View, CA. He has been the Lead Hardware Engineer for numerous large signal processing systems for both the National Security Agency (NSA) and TRW Inc. An experienced lecturer, and past instructor at the University of California Santa Cruz Extension, Richard has delivered signal processing seminars and training courses

throughout the US and Europe. As an Associate Editor for the IEEE Signal Processing Magazine, he created and edits the magazine's "DSP Tips & Tricks" column. He has written numerous articles on DSP topics, and authored the best selling textbook "Understanding Digital Signal Processing 2/E" (Prentice Hall, 2004). He is also the Editor of, and contributor to, the Wiley & Sons/IEEE Press book: "Streamlining DSP, A tricks of the Trade Guidebook". Richard is a member of the IEEE, and Eta Kappa Nu the electrical engineering honor society. He can be contacted at: R.Lyons@ieee.org.

H. WHAT'S GOOD ABOUT THE COURSE
* Instead of overwhelming the student with complex mathematics, the lecturer uses intuitive explanations and well-chosen examples to develop a fundamental understanding of DSP theory. (A recipe for technical material that's too rich in equations is hard for the beginner to digest.)

* The practical aspects of signal processing techniques are stressed as opposed to mathematically rigorous discussions of discrete system theory. THIS COURSE TEACHES THE STUDENTS HOW TO USE DSP IN THEIR WORK.

* Comprehensive in scope, and gentle in approach, the course gives the student a thorough grasp of the basics and the ability to move on to more sophisticated DSP concepts and applications.

* In addition to covering the key practical aspects of DSP, a collection of tricks-of-the-trade used by DSP professionals, to make their processing more efficient, are introduced throughout the course.

* In terms of DSP training, this course is the beginner's best opportunity to efficiently and thoroughly learn the fundamentals of DSP.

I. QUOTES FROM RECENT STUDENTS:

"Excellent course for engineers wanting to get (an) insight into DSP."
- George Hughes, Lockheed Martin

"Instructor takes a traditionally difficult subject to learn, and made it easy. His printed material is excellent."
- William Schnable, Lucent Technologies

"I appreciated the instructor's ability to communicate complex subjects in a simple format. This course is in my top 3 of 'Best Ever' (in 20 years)."
- Brian Kralicek, Nokia

"Lyons presents a very solid engineering perspective of the
subject with a minimal, yet sufficient, amount of math."
- Gene Kozin, Itron Inc.

"... great instructor. I now understand what the college
professors were trying to teach."
- Simon Sirin, U.S. Dept. of Energy

"This course takes the mystery out of DSP. Instructor has
a knack for presenting information in a way that is very
logical and easy to understand."
- Dale Laing, Lockheed Martin

"Lyons' is an excellent communicator of highly technical
material. He uses plenty of real examples to translate
theory to something of utility."
- David Day, Day Test and Measurement Inc.

To register for the class, please contact Besser Associates at
Phone: (650)949-3300. For additional course offerings, call Besser
Associates or visit http://www.bessercourse.com/ to view our
public course catalog and current schedule.

20. Re: ADVERT: DSP Training in March, San Jose, CA

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-02-22 15:08:27 UTC
From: Clay <clay@claysturner.com>
Message-ID: <123addfa-3c7d-41c5-86b8-a35134980a3a@u9g2000yqb.googlegroups.com>
Source record: 57
Cross-posted to: comp.dsp,comp.soft-sys.matlab,rec.radio.amateur.digital.misc,rec.audio.pro
Body handling: HTML body converted to readable text

```
On Feb 19, 8:36 pm, Besser Associates
wrote:
> Greetings,
> Besser Associates is offering their acclaimed
> "DSP Made Simple for Engineers" class in
> San Jose, California, on 17-19 February 2010.
>
> This 3-day class is particularly well-suited to those involved
> in RF and audio signal processing, and computer programmers,
> who need to learn the fundamentals of DSP theory. Details of this
> course, including target audience, learning objectives, course
> outline, materials descriptions, and past student comments
> are contained in this post as items "A" through "I".
>
> To register, please contact Besser Associates at Phone: (650)949-3300.
> For additional course offerings, call Besser Associates
> or visithttp://www.bessercourse.com/to view our public course
> catalog and current schedule.
>
> ------ Detailed DSP course information follows ------
>
> A. BESSER COURSE TITLE:
> "DSP Made Simple for Engineers"; a 3-day tutorial course
> on digital signal processing (DSP) theory.
>
> B. TARGET AUDIENCE
> * The primary audience is practicing RF (and Audio) hardware
> Engineers and Software Programmers who need to understand
> digital signal processing (DSP) because of its
> ever-increasing role in the processing of real-world signals.
>
> * While DSP Made Simple is not a "programming course", it is
> particularly well suited for computer programmers because
> of their increasing need to understand DSP algorithms.
>
> * In general, this course is beneficial to anyone involved
> in the acquisition, generation, transmission, filtering,
> or analysis of digital signals.
>
> C. WHAT THE STUDENT GAINS FROM THE COURSE:
> * The ability to apply DSP techniques to real-world
> signal processing problems in their work.
```

>
> * A solid grasp of DSP basics and the ability to move
> gradually to more sophisticated DSP concepts and
> applications.
>
> * The ability to speak the language of DSP.
>
> * Much practical information on how to optimize (streamline
> the computations of) the algorithms of DSP.
>
> * The ability to understand written descriptions (articles,
> application notes, textbooks) of DSP methods used
> in practice.
>
> To register, please contact Besser Associates at Phone: (650)949-3300.
> For additional course offerings, please call Besser Associates
> or visithttp://www.bessercourse.com/
>
> D. COURSE OUTLINE
> _____________________________________
> DAY 1
> DISCRETE SEQUENCES AND SYSTEMS
> * Discrete Sequences, Their Notation, and Representation
> * Signal Amplitude, Magnitude, Power Definitions
> * Signal Processing Operational Symbols
>
> PERIODIC SAMPLING
> * Periodic Sampling and Aliasing
> * Sampling Low-Pass Signals
> * Sampling Bandpass Signals
> * Spectral Inversion in Bandpass Sampling
>
> THE DISCRETE FOURIER TRANSFORM
> * Understanding the DFT Equation
> * DFT Properties
> * DFT Results Interpretation
> * Shifting Theorem
> * Inverse DFT
> * DFT Leakage
> * Use of Signal data Windows
> * DFT Resolution and Zero Padding
> * DFT Processing Gain
> _____________________________________
> _____________________________________
> DAY 2
> THE FAST FOURIER TRANSFORM
> * Relationship of the FFT to the DFT
> * FFT Input/Output Indexing Bit Reversal
> * Guidance On Using FFTs With Real-World Signals
> * Averaging Multiple FFTs

>
> FINITE IMPULSE RESPONSE DIGITAL FILTERS
> * An Introduction to Finite Impulse Response Filters
> * Convolution In FIR Filters
> * FIR Filter Analysis and Design Examples
> * Phase Response of FIR Filters (Group Delay)
> * Half-Band FIR Filters
> * Brief Introduction to Matched Filters
> * FIR Comb Filters
>
> _____
> DAY 3
> INFINITE IMPULSE RESPONSE DIGITAL FILTERS
> * An Introduction to Infinite Impulse Response Filters
> * The Laplace Transform
> * The z-Transform
> * IIR Filter Design and Analysis Methods
> * Pitfalls in Building IIR Digital Filters
> * Cascade and Parallel Combinations of Digital Filters
> * Comparison of IIR and FIR Filters
>
> ADVANCED SAMPLING TECHNIQUES
> * Quadrature Signals and Quadrature Sampling
> * Quadrature Sampling With Digital Mixing
> * Digital Resampling (Sample Rate Change)
> * Decimation
> * Interpolation
> * Decimation and Interpolation in Combination
>
> E. WHAT THE COURSE DOES NOT COVER:
> The DSP Made Simple Course does not cover the hardware
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> Likewise, while the course introduces the topic of commercially
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> The training material comprises 475 pages of class handouts.
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> an abundance of diagrams. A textual description
> summarizing the key DSP concepts are included at the bottom
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> The highly praised DSP textbook, "Understanding Digital Signal
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> DSP book for over five years.
>
> G. COURSE LECTURER:
> RICHARD LYONS is a Consulting Systems Engineer and lecturer
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> Hardware Engineer for numerous large signal processing
> systems for both the National Security Agency (NSA) and
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> University of California Santa Cruz Extension, Richard has
> delivered signal processing seminars and training courses
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> textbook "Understanding Digital Signal Processing 2/E"
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> * Comprehensive in scope, and gentle in approach, the course
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> throughout the course.
>
> * In terms of DSP training, this course is the beginner's best
> opportunity to efficiently and thoroughly learn the
> fundamentals of DSP.
>
> ------
> I. QUOTES FROM RECENT STUDENTS:
>

> "Excellent course for engineers wanting to get (an) insight
> into DSP."
> - George Hughes, Lockheed Martin
>
> "Instructor takes a traditionally difficult subject to learn,
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>
> "I appreciated the instructor's ability to communicate complex
> subjects in a simple format. This course is in my top 3 of
> 'Best Ever' (in 20 years)."
> - Brian Kralicek, Nokia
>
> "Lyons presents a very solid engineering perspective of the
> subject with a minimal, yet sufficient, amount of math."
> - Gene Kozin, Itron Inc.
>
> "... great instructor. I now understand what the college
> professors were trying to teach."
> - Simon Sirin, U.S. Dept. of Energy
>
> "This course takes the mystery out of DSP. Instructor has
> a knack for presenting information in a way that is very
> logical and easy to understand."
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>
> "Lyons' is an excellent communicator of highly technical
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> - David Day, Day Test and Measurement Inc.
>
> To register for the class, please contact Besser Associates at
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> Associates or visithttp://www.bessercourse.com/to view our
> public course catalog and current schedule.

Am I missing something or was this posted on the last day of the class? This makes me think of the Russian Comedian Smirnov who opens the newspaper and reads the ad that says: "Big Sale - Last Week" He comments so all right I didn't go, but do you have to rub it in?
Clay

21. DJ equipment . . . how to buy it at best online prices from a trusted seller . . .

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-02-26 06:42:42 UTC
From: chris- <chris.melchior@gmail.com>
Message-ID: <6977bf14-4493-4082-9a1f-1a5d231a4450@v20g2000prb.googlegroups.com>
Source record: 58

If you are interested in DJ equipment, check out this new site which tells you all you need to know about choosing a DJ setup (even if you are a complete beginner) and how to get the best online deals from the most trusted seller on the net . . .

http://djsetup.net/

22. [tapr-announce] Dr. David Toth, VE3GYQ, SK

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-03-03 05:38:20 UTC
From: Steven Bible <srbible@earthlink.net>
Message-ID: <4415458.1267377762812.JavaMail.root@elwamui-karabash.atl.sa.earthlink.net>
Source record: 59
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

It is with great sadness that we report the passing of friend Dave Toth on February 26, 2010. Dave was President Emeritus of TAPR and also served as its President (2005-2009) and as a member of its Board of Directors (1987-1993 and 2004-2010). VE3GYQ will be best remembered for his dry sense of humor and his efforts to make TAPR's participation in the HPSDR project a resounding success.

Dave's Obituary reads:

Dr. David Bradley Toth, 55, died at 3:10 p.m. Feb. 26, 2010, at his residence.

He was born Aug. 11, 1954, in Windsor, Ontario, to Thomas S. and Magda M. Kachler Toth. His mother survives in Windsor. On June 16, 2009, he married Ronda S. Nartker, who survives in Spencerville.

Dr. Toth graduated from the University of Western Ontario Medical School in 1978. He practiced family medicine in London, Ontario. He moved to the U.S. in 1993 and began a career in emergency medicine. He was a partner of Premier Health Care Services, in Dayton, and worked at Lima Memorial Health System and St. Rita(tm)'s Medical Center until the time of his illness. He was a member of the American College of Emergency Physicians, College of Physicians and Surgeons of Ontario. He was board certified in Family Medicine of Canada. He was president of the Regional Physician Advisory Board of EMS and was also the medical director of Ada, Bath and Spencerville EMS.

He was a private pilot for 30 years. He loved to go to the Allen County Airport and fly his Twin Comanche as much as possible. He was a member of the Aircraft Owners and Pilots Association, EAA and the Comanche Flyers. Besides flying, he was an amateur astronomer. Since he was a young boy in school, he enjoyed looking at the night sky and reading about space and the stars. He had his own observatory that was seen opened up on clear nights. He set up the London, Ontario, Astronomy Club and served as its president. He was also a member of the Royal Astronomical Society of Canada and belonged to the Lima, Dayton and Columbus Astronomy Clubs. He traveled for NASA to Chile and Australia to fix telescope problems. He worked closely with Software Bisque to make computer programs to operate telescopes. You could catch him planning trips to Starfest and the Winter Star Party yearly.

He was also a HAM radio operator since the 1970s. He would talk for hours with his call sign VE3GYQ. He set up the London, Ontario, towers. He was the Tucson Amateur Packet Radio president from 2004 to 2009. In his spare time, he enjoyed a round or two of golf with partners or for fundraisers. He also enjoyed hitting the slopes if possible to

ski.

Survivors also include two sons, Michael Toth, of Bowling Green, and Christopher Toth, of London, Ontario; a daughter, Caitlin Toth, of Montreal; a stepson, Rusty Nartker, of Spencerville; two brothers, Brian (Susan) Toth, of London, Ontario, and Darryl (Helena) Toth, of Lakeshore, Ontario; two sisters, Stephanie (Frank) Capizzi, of Shelby Township, Mich., and Sondra (Dana) Woltz, of Windsor, Ontario; an aunt, Apollonia "Loni" Noll of Windsor, Ontario; and numerous nephews and nieces.

Services will begin at 10:30 a.m. Wednesday at St. Charles Catholic Church. Father Stephen Blum will officiate. Burial of the cremated remains will be at a later date.

Friends may call from 3 to 8 p.m. Monday and 1 to 8 p.m. Tuesday at the Shawnee Chapel of Chiles-Laman Funeral Homes, where a parish wake service will begin at 8 p.m. Tuesday.

_____
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list. Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

23. ARRL Teachers Institute on Wireless Technology

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-03-15 15:00:40 UTC
From: ARRL NE Section <memberlist@www.arrl.org>
Message-ID: <20100315141218.B200420DE3@bmail.arrl.org>
Source record: 60
Cross-posted to: rec.radio.amateur.moderated,rec.radio.amateur.misc,rec.radio.amateur.digital.misc,rec.radio.info

If you are an educator or if you know of one who might be interested in learning more about wireless technology, here is an announcement from ARRL HQ.

73, Art K&#65533;AIZ

****

We are currently accepting enrollments for the 2010 sessions of the Teachers Institute on Wireless Technology. Word of mouth has often been our best recruiting method so we invite the ham radio community to recruit teachers in their local schools who would find this opportunity interesting and rewarding.

The Teachers Institute is an exceptional professional development opportunity for teachers who want to explore the fundamentals of wireless technology, basic electronics, robotics and use amateur radio as a tool for learning in the classroom. The four day expenses paid seminar is funded by ARRL Education & Technology Fund donors. Teachers can also apply for graduate credit for the seminar.

The schedule of dates and locations for this year's sessions, as well as an agenda of topics, a downloadable brochure and applications are available on our website at www.arrl.org/ti. If you would like to request copies of the printed brochure, please contact the Education Services Dept. at ead@arrl.org.

Debra Johnson, K1DMJ
Education Services Manager
ARRL, the national association for Amateur Radio&#65533;
225 Main Street
Newington, CT 06111-1494
(860) 594-0296
Fax: (860) 594-0259
djohnson@arrl.org

ARRL Nebraska Section
Section Manager: Arthur I. Zygielbaum, K0AIZ
k0aiz@arrl.org

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24. [tapr-announce] Spring Packet Status Register (PSR): Write For It!

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-03-15 22:56:19 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4B9EB9F3.3070102@sbcglobal.net>
Source record: 61
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

The Spring issue of TAPR's quarterly newsletter, Packet Status Register
(PSR), is in the works. If you would consider writing something for PSR,
the PSR editorial board would seriously consider publishing it. The
deadline for the Spring issue is April 15, so you have one month to
write something!

The Spring issue appears just before the Dayton Hamvention, so if you
want to write something that ties in with the Hamvention, then even better!

Thank-you and 73,

Stan, WA1LOU
PSR Editor

_____
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list.
Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe
from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

25. [tapr-announce] PSR deadline next week

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-04-09 16:14:41 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4BBF5177.7070008@sbcglobal.net>
Source record: 62
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

Just a reminder: if you were planning to contribute to the next issue of
TAPR's quarterly newsletter, Packet Status Register (PSR), the deadline
for the the next issue (the Dayton Hamvention issue) is April 15.

73,

Stan, WA1LOU
PSR Editor

_____
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list.
Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe
from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

26. [tapr-announce] PSR Deadline on Thursday

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-04-14 01:49:57 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4BC51E4E.9010300@sbcglobal.net>
Source record: 63
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

Just one last reminder that the deadline for Packet Status Register
(PSR, TAPR's quarterly newsletter) is this Thursday. So if you have
anything to contribute, please send it to me ASAP.

Thanks and 73,

Stan, WA1LOU
PSR Editor

_____
tapr-announce mailing list

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Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe
from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

27. Re: PSK31 with DOS and sound card?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-04-24 00:42:43 UTC
From: Juniper <juniper@dev.null>
Message-ID: <20100423174243432 28-juniper@devnull>
Source record: 64

Why use something as fancy as DOS when you can rock out an Apple II or Commodore 64? I believe there are some modes workable on those.

28. Re: SeaTTY for FAX ?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-05-04 16:41:43 UTC
From: "\"Torbjørn.\"" <mardok68@ymail.com>
Message-ID: <ldGdnZ6rA__b033WnZ2dnUVZ87-pnZ2d@telenor.com>
Source record: 65

Den 02.11.2009 18:20, skrev John W:
> Hi Torbji¿½rn
>
> I don't know much about SeaTTY but most other FAX software states that you
> must tune 1.9kHz below the frequency of the station and use USB. LSB usage
> is rare. HF fax is usually 120, 90 or 60 LPM (lines per minute) with 576 or
> 288 IOC (index of correlation). So make sure everything is set up properly.
> If there is an APT setting then that will probably be referring to 137MHz
> satellite transmissions. Some software uses the start tone of the FAX
> transmission to determine the IOC value.
>
> Hope this Helps.
>
> 73
>
> JOHN M5AML
>

Many thanks for the info there. I did manage to find a solution, it
turned out that my soundcard needed a calibration. Obvious no problems
with normal audio/movies but with SeaTTY it was quite needed.

73
Torbjorn, LA6WLA

29. Yaesu VX-8DR: on-board TNC

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-05-27 06:35:27 UTC
From: Rob Lingelbach <Rob.Lingelbach.643fab5@radiobanter.com>
Message-ID: <Rob.Lingelbach.643fab5@radiobanter.com>
Source record: 68

Returning to packet after many years away, will soon have a new radio for VHF/UHF packet. The radio, a Yaesu VX-8DR, includes an AX.25 TNC, yet the specifications and manual only refer to this built-in TNC as a dedicated APRS device. Why can't it also be used with an external input, in the case of packet transceive that is not APRS-related, such that I wouldn't need to use an external TNC between my laptop and the radio? Thanks in advance for any help.

Rob KB6CUN

--
Rob Lingelbach

30. Re: Yaesu VX-8DR: on-board TNC

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-05-27 12:14:44 UTC
From: Alan WA4SCA <WA4SCA@YAHOO.COM>
Message-ID: <odosv59p1h3ktiie9vv94msk84ihhe8ska@4ax.com>
Source record: 66

Rob,

The short answer is they just didn't build it that way. In talking with the Yaesu guys at Dayton, I asked why they did not make it available. The answer was something like, "We get that question a lot, and Yaesu is looking at whether it can be changed in firmware."

--
Alan
WA4SCA

31. Re: Yaesu VX-8DR: on-board TNC

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-05-27 16:45:09 UTC
From: Rob Lingelbach <Rob.Lingelbach.644a377@radiobanter.com>
Message-ID: <Rob.Lingelbach.644a377@radiobanter.com>
Source record: 67

'Alan WA4SCA[_3_ Wrote:
> ;708107']Rob,
>
> The short answer is they just didn't build it that way. In talking
> with the Yaesu guys at Dayton, I asked why they did not make it
> available. The answer was something like, "We get that question a
> lot, and Yaesu is looking at whether it can be changed in firmware."
>
>
> --
> Alan
> WA4SCA

Thank you for the reply Alan. It would have been a very nice
capability and would have made the radio even more attractive.

73
Rob KB6CUN

--
Rob Lingelbach

32. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-01 18:15:58 UTC
From: Brian Reay <seewebsite@invalid.com>
Message-ID: <i0im10$qp7$1@news.eternal-september.org>
Source record: 69
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.digital,rec.radio.amateur.misc
,rec.radio.amateur.digital.misc

"Brian Morrison" <bdm@fenrir.org.uk> wrote in message
news:20100701190840.63646ff0@peterson.fenrir.org.uk...
>I was following up on the current situation with David Rowe's work
> on the Codec2 digital voice codec the other day, and noticed that it's
> not progressing much due to essentially lack of development time when
> David needs to put food on the table. So I decided to make a donation.
>
> I was absolutely astonished to receive a thank you from David that said
> "your are the first person to donate to Codec2", I really didn't expect
> that at all. Surely I thought, other people have been this way before?
> It seems not.

I'm not that surprised, I've had similar responses to shareware type
donations.

Never the less, you've chipped in, perhaps others who are pro-digital but
anti DSTAR will follow your example.

--
73
Brian G8OSN/W8OSN
www.g8osn.net

33. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-01 18:22:32 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni2pn78.dq7.nomail@xs8.xs4all.nl>
Source record: 70
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.digital,rec.radio.amateur.misc
,rec.radio.amateur.digital.misc

Brian Morrison <bdm@fenrir.org.uk> wrote:
> Now, since I've put some money into the pot, I was hoping that anyone
> else that would like to see proprietary technology in amateur radio
> replaced by something open that can be inspected, learned from and
> improved, will visit the following link and see what they are prepared
> to donate:

There is no way that is going to happen. The Codec2 will not be compatible
with AMBE, so a commercially manufactured transceiver will not be able
to talk to an open one. D-Star does not have the capability to negotiate a
CODEC in the protocol, so beside the low level of the coded the higher
levels will also need to be redone.
There is no way the "proprietary technology can be replaced", the only
thing that could happen is that a second network, incompatible with
the current D-STAR network, could be setup using open technology.
Frankly, I don't think we still have the userbase to make that happen.

I am probably not the only one with this opinion, and I am not amazed
that there are not many that would sponsor a development like this that
cannot be put to real use.

The only useful development would be the development of a free, open
codec that is compatible with AMBE. But that would have to be done in
an environment that does not bow to US Patents etc, or it will have to
wait until all the patents have expired.

34. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-01 18:37:37 UTC
From: M0WYM <nospammers@radiowymsey.org>
Message-ID: <i0in9i$2im$1@news.eternal-september.org>
Source record: 71
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.digital,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 01/07/10 19:22, Rob wrote:

>
> There is no way that is going to happen. The Codec2 will not be compatible
> with AMBE, so a commercially manufactured transceiver will not be able
> to talk to an open one.

"ICOM's D*STAR transceivers, even the handie-talkies, have their AMBE
codec on a removable daughter card. This is wonderful, because it gives
us a path to change the codec. "

http://codec2.org/

HTH,

Charlie.

--
M0WYM
www.radiowymsey.org

Sales @ radiowymsey
http://shop.ebay.co.uk/gnome7763/m.html?

35. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-01 21:40:50 UTC
From: Brian Kantor <brian@ucsd.edu>
Message-ID: <l4wew2.dgn@ucsd.edu>
Source record: 72
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.digital,rec.radio.amateur.misc
,rec.radio.amateur.digital.misc

M0WYM <nospammers@radiowymsey.org> wrote:
>On 01/07/10 19:22, Rob wrote:
>> There is no way that is going to happen. The Codec2 will not be compatible
>> with AMBE, so a commercially manufactured transceiver will not be able
>> to talk to an open one.
>"ICOM's D*STAR transceivers, even the handie-talkies, have their AMBE
>codec on a removable daughter card. This is wonderful, because it gives
>us a path to change the codec. "
>http://codec2.org/

I think hams should be looking into using TETRA instead of DSTAR/P25, if we
are to actually consider using digital voice technology. I believe there
would be far fewer encumbrances than with P25, and there are LOTS more surplus
radios around.
- Brian

36. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-06 23:24:22 UTC
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Message-ID: <81327240-2ca1-4aec-9e0f-5a0103f9dd98@l25g2000prn.googlegroups.com>
Source record: 73
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.digital.misc
Body handling: HTML body converted to readable text

On Jul 2, 4:22 am, Rob wrote:
> Brian Morrison wrote:
> > Now, since I've put some money into the pot, I was hoping that anyone
> > else that would like to see proprietary technology in amateur radio
> > replaced by something open that can be inspected, learned from and
> > improved, will visit the following link and see what they are prepared
> > to donate:
>
> There is no way that is going to happen. The Codec2 will not be compatible
> with AMBE, so a commercially manufactured transceiver will not be able
> to talk to an open one. D-Star does not have the capability to negotiate a
> CODEC in the protocol, so beside the low level of the coded the higher
> levels will also need to be redone.

Indeed... D-Star radios will always talk AMBE... and thier legality on
amateur bands will always be questionable.

Nothing stops however, someone coming up with an open system ... but
then say, modifying the D-Star gateway software to make *that*
interoperable with the aforementioned open system.

So yes, D-Star radios will be able to talk to some other digital radio
standard, but only through a repeater or translator of some
description.

> I am probably not the only one with this opinion, and I am not amazed
> that there are not many that would sponsor a development like this that
> cannot be put to real use.

I think there are lots of possible options for a low-bandwidth and
royalty-free CODEC. VoIP on slow links... digital voice on HF... just
to name two.

> The only useful development would be the development of a free, open
> codec that is compatible with AMBE. But that would have to be done in
> an environment that does not bow to US Patents etc, or it will have to
> wait until all the patents have expired.

I'm not sure that "following the leader" is the way to go here. Yes,
if I wanted a Mickey Mouse-like character to use in a cartoon, I
could wait for Buena Vista's copyright on him to expire (lawyers
already managed to negotiate a 70-year expiry on the copyright). I
dare say AMBE will be locked down for at least several years yet.

The question is, do we want to sit around, or do we want to actively seek our own. I personally have little money to contribute (don't have PayPal... so that option is not open to me) but I will probably have a look at it and see if there are other ways to help the cause. However, like the original author of CODEC2, I have limited time too.

37. [tapr-announce] Summertime

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-23 00:07:26 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4C48DC4B.3080904@sbcglobal.net>
Source record: 74
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

Summertime - and the living is easy except at the Packet Status Register offices where the editors are sweating over the next issue of TAPR's quarterly newsletter. In addition to producing perspiration, the editors are also seeking articles for the next issue of PSR. So if you have anything to contribute, please send it before the August 15 deadline.

73,

Stan Horzepa, WA1LOU
Editor-in-Sweat

_____
tapr-announce mailing list

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38. SOUTH ACTRESS HOT PHOTOS&VIDEOS

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-07-26 07:54:33 UTC
From: SAMARA <jaidatta9247@gmail.com>
Message-ID: <6ca58aac-c181-41ae-9cd4-602c5eda0c05@o7g2000prg.googlegroups.com>
Source record: 75

FOR HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com

AISHWARIYARAI HOT EXPOSING PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/aishwariyarai-hot-photo.html

ANKITHA IN A TUB BATH

http://hotheroinesphoto.blogspot.com/2010/06/ankitha-in-tub-bath.html

NAMITHA SEXY PHOTO IN BEACH

http://hotheroinesphoto.blogspot.com/2010/06/namitha-in-beach.html

CHARMI IN A SEXY FEEL

http://hotheroinesphoto.blogspot.com/2010/06/sexy-charmi.html

CHENNAI HOT GIRLS WITH SWIM WEAR

http://hotheroinesphoto.blogspot.com/2010/06/chennai-hot-girls.html

KAJAL AGARWALHOT PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/kajal-agarwal-hot.html

KATRINA KAIF IN A HOT SAREE

http://hotheroinesphoto.blogspot.com/2010/06/hot-katrina.html

39. ADULT HOT PHOTOS&VIDEOS

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-04 10:00:55 UTC
From: SAMARA <jaidatta9247@gmail.com>
Message-ID: <4a39c3de-9c91-4537-9af0-c66e6adde165@f6g2000pro.googlegroups.com>
Source record: 76

AMISHAPATEL HOT BOOBS

http://babes-devi.blogspot.com/2010/07/amishpatel-latest-photos.html

ARCHANA UNSEENED EXPOSING PHOTOS

http://babes-devi.blogspot.com/2010/07/archana-unseened-photos.html

KATRINA KAIF HOT SEXY PHOTOS

http://babes-devi.blogspot.com/2010/07/katrina-sexy-looking-photos.html

THISHA HOT WET PHOTOS

http://babes-devi.blogspot.com/2010/06/thrisha-hot-wet-photos.html

SEXY CHARMI IN A BATHROOM

http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html

KAJALAGARWAL IN A ROMANTIC FEEL

http://babes-devi.blogspot.com/2010/06/kajal-hot-photos.html

NAMITHA IN A BEACH

http://babes-devi.blogspot.com/2010/06/nayagarala-namitha.html

40. [tapr-announce] time flies

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-08 14:54:59 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4C5EC43A.2000909@sbcglobal.net>
Source record: 77
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

No - I did not throw my clock out the window, but time is flying by
nonetheless and the deadline for the next issue of TAPR's quarterly
newsletter, PSR, is fast approaching (it's August 15). So, if you have
anything that you wish to have see the light of day on the pages of PSR,
please send it along ASAP.

73,

WA1LOU - PSR Editor

_____
tapr-announce mailing list

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from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

41. [tapr-announce] PSR deadline today

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-15 13:44:42 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4C67EE5E.6010408@sbcglobal.net>
Source record: 78
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

The deadline for the next issue of TAPR's quarterly newsletter, PSR, is
today. So if you have anything you would like to contribute to the
newsletter, please e-mail it to me ASAP.

Thank you!

WA1LOU - PSR Editor

_____
tapr-announce mailing list

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42. [tapr-announce] DCC reminder

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-16 01:48:29 UTC
From: John Koster <w9ddd@tapr.org>
Message-ID: <Pine.LNX.4.44.1008151006200.13713-100000@localhost.localdomain>
Source record: 79
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

It's time to get that registration in place. There's less than 2 weeks
before the room and registration prices go up on September 1st.

Registration information and hotel contact information are located at:

http://www.tapr.org/dcc.html

--
73,
John, W9DDD

_____
tapr-announce mailing list

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from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

43. Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-20 13:19:19 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9DDA54A7F68A1VeebleFetzer@81.169.183.62>
Source record: 80

I've picked up a handful of programs for various digital modes and driving my PC's soundcard with the line-out audio from my TenTec Omni 7 have no problem copying signals once I figure out what mode they are.

However, all these programs have either AFC or some other way of decoding a signal pretty much independent of what frequencies the tones are on, so long as they're inside the passband, so it doesn't matter a whole lot what frequency my receiver's tuned to.

On the other hand, I'm sure that if I ever get around to lashing things up so that I could transmit, things wouldn't be so forgiving.

I haven't yet done any real research into digital modes; is there a good (preferably online) resource, particularly something that would tell me what the correct audio offset from the carrier is for the various modes?

--
Bert Hyman W0RSB St. Paul, MN bert@iphouse.com

44. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-20 16:57:49 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <dpo2k7-lk6.ln1@mail.specsol.com>
Source record: 81

Bert Hyman <bert@iphouse.com> wrote:
> I've picked up a handful of programs for various digital modes and
> driving my PC's soundcard with the line-out audio from my TenTec Omni 7
> have no problem copying signals once I figure out what mode they are.
>
> However, all these programs have either AFC or some other way of
> decoding a signal pretty much independent of what frequencies the tones
> are on, so long as they're inside the passband, so it doesn't matter a
> whole lot what frequency my receiver's tuned to.
>
> On the other hand, I'm sure that if I ever get around to lashing things
> up so that I could transmit, things wouldn't be so forgiving.
>
> I haven't yet done any real research into digital modes; is there a good
> (preferably online) resource, particularly something that would tell me
> what the correct audio offset from the carrier is for the various modes?

The only "correct" audio offset is to keep it inside the band.

Most programs have a panoramic window, which if set up properly, will show
your actual receive frequency with audio offset and your transmit frequency.

See this one, for example:

http://www.dxlabsuite.com/winwarbler/

--
Jim Pennino

Remove .spam.sux to reply.

45. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-20 17:17:09 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9DDA7CFB9CA93VeebleFetzer@216.250.188.141>
Source record: 82

In news:dpo2k7-lk6.ln1@mail.specsol.com jimp@specsol.spam.sux.com wrote:

> Bert Hyman <bert@iphouse.com> wrote:
>> I've picked up a handful of programs for various digital modes and
>> driving my PC's soundcard with the line-out audio from my TenTec Omni
>> 7 have no problem copying signals once I figure out what mode they
>> are.
>>
>> However, all these programs have either AFC or some other way of
>> decoding a signal pretty much independent of what frequencies the
>> tones are on, so long as they're inside the passband, so it doesn't
>> matter a whole lot what frequency my receiver's tuned to.
>>
>> On the other hand, I'm sure that if I ever get around to lashing
>> things up so that I could transmit, things wouldn't be so forgiving.
>>
>> I haven't yet done any real research into digital modes; is there a
>> good (preferably online) resource, particularly something that would
>> tell me what the correct audio offset from the carrier is for the
>> various modes?
>
> The only "correct" audio offset is to keep it inside the band.
>
> Most programs have a panoramic window, which if set up properly, will
> show your actual receive frequency with audio offset and your transmit
> frequency.

I was thinking of the case where I've tuned another station and getting
good print locally and then want to reply.

I'm using a transceiver in with the transmit & receive VFOs tuned to the
same frequency.

Since the software will have grabbed and decoded his signal more or less
automatically so long as I was tuned somewhere close. When transmitting,
the software will presumably generate tones of some fixed frequency,
completely ignorant of how I've tuned the receiver. There's no reason to
think that if I transmit on whatever frequency my receiver happens to be
sitting on that I'll be anywhere near where the other guy might be
listening.

So, what's the trick to tuning digital signals so that I'm transmitting
on the "right" frequency?

Or am I over analyzing this?

>
> See this one, for example:
>
> http://www.dxlabsuite.com/winwarbler/
>

--
Bert Hyman W0RSB St. Paul, MN bert@iphouse.com

46. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-20 17:36:26 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <q1r2k7-7l8.ln1@mail.specsol.com>
Source record: 83

```
Bert Hyman <bert@iphouse.com> wrote:
> In news:dpo2k7-lk6.ln1@mail.specsol.com jimp@specsol.spam.sux.com wrote:
>
>> Bert Hyman <bert@iphouse.com> wrote:
>>> I've picked up a handful of programs for various digital modes and
>>> driving my PC's soundcard with the line-out audio from my TenTec Omni
>>> 7 have no problem copying signals once I figure out what mode they
>>> are.
>>>
>>> However, all these programs have either AFC or some other way of
>>> decoding a signal pretty much independent of what frequencies the
>>> tones are on, so long as they're inside the passband, so it doesn't
>>> matter a whole lot what frequency my receiver's tuned to.
>>>
>>> On the other hand, I'm sure that if I ever get around to lashing
>>> things up so that I could transmit, things wouldn't be so forgiving.
>>>
>>> I haven't yet done any real research into digital modes; is there a
>>> good (preferably online) resource, particularly something that would
>>> tell me what the correct audio offset from the carrier is for the
>>> various modes?
>>
>> The only "correct" audio offset is to keep it inside the band.
>>
>> Most programs have a panoramic window, which if set up properly, will
>> show your actual receive frequency with audio offset and your transmit
>> frequency.
>
> I was thinking of the case where I've tuned another station and getting
> good print locally and then want to reply.
>
> I'm using a transceiver in with the transmit & receive VFOs tuned to the
> same frequency.
>
> Since the software will have grabbed and decoded his signal more or less
> automatically so long as I was tuned somewhere close. When transmitting,
> the software will presumably generate tones of some fixed frequency,
> completely ignorant of how I've tuned the receiver. There's no reason to
> think that if I transmit on whatever frequency my receiver happens to be
> sitting on that I'll be anywhere near where the other guy might be
> listening.
>
> So, what's the trick to tuning digital signals so that I'm transmitting
> on the "right" frequency?
```

>
> Or am I over analyzing this?

Yes, with any decent software you are.

Of all the signals in the receive passband, you need to select one to deal with.

When you do that, every program I've seen so far sets the transmit audio offset, i.e. the effective transmit frequency, to the received audio offset.

Assuming of course that both xmit and rcv VFO's are on the same frequency.

--
Jim Pennino

Remove .spam.sux to reply.

47. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-20 18:37:02 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9DDA8A8647690VeebleFetzer@216.250.188.141>
Source record: 84

In news:q1r2k7-7l8.ln1@mail.specsol.com jimp@specsol.spam.sux.com wrote:

> When you do that, every program I've seen so far sets the transmit
> audio offset, i.e. the effective transmit frequency, to the received
> audio offset.

OK; that's an important piece of information. I had simply assumed that
the generated audio would be at some fixed frequency.

Thanks.

--
Bert Hyman W0RSB St. Paul, MN bert@iphouse.com

48. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-20 20:53:41 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <lj63k7-vr9.ln1@mail.specsol.com>
Source record: 85

Bert Hyman <bert@iphouse.com> wrote:
> In news:q1r2k7-7l8.ln1@mail.specsol.com jimp@specsol.spam.sux.com wrote:
>
>> When you do that, every program I've seen so far sets the transmit
>> audio offset, i.e. the effective transmit frequency, to the received
>> audio offset.
>
> OK; that's an important piece of information. I had simply assumed that
> the generated audio would be at some fixed frequency.

Digital QSO's normally take place on the same frequency for both sides, so the transmitter audio offset has to match the receiver audio offset for it to work.

--
Jim Pennino

Remove .spam.sux to reply.

49. [tapr-announce] HAM to Digital - Pakistan Flood Relief

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-26 05:06:26 UTC
From: John Koster <w9ddd@tapr.org>
Message-ID: <Pine.LNX.4.44.1008252201400.2557-100000@localhost.localdomain>
Source record: 86
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

The TAPR Office received a telephone inquiry today about the use of Packet Radio for relief efforts in Pakistan.

I asked Jeannie to summarize in an email what kind of information or help they were seeking

I felt posting to the tapr-announce list would be the easiest way to get the word out.

Please contact Jeannie directly if you can help.

--
73,
John, W9DDD

To recap, we are interested in HAM radio expertise to help us figure out how to enable on-the-ground reports communicated through HAM radio to be compiled into digital maps (e.g., see map created by Ushahidi for Haiti http://haiti.ushahidi.com/, which we fed SMS and Twitter messages) for use by relief organizations. This project is within Crisiscommons.org, (www.crisiscommons.org) and I am the Silicon Valley city lead. CrisisCommons.org is a volunteer movement of coders for humanitarian relief in natural disasters, and anyone can jump in and contribute any amount of effort that they like.

Background information and our current understanding is being recorded at: http://wiki.crisiscommons.org/wiki/HAM_Radio_to_Digital#Self-Register Please encourage any interested parties to jump in and edit the page to help us understand HAM capabilities and technical needs. The goals for defining requirements is to create an open source software stand-alone or add-on software to automate collection of HAM-generated information during natural disasters to a common operating picture.

A team is being sent in for a range of CrisisCommons.org projects; if your members could help us communicate with the HAM operators in Pakistan, to get requirements (even by voice), we would love to know more about what they need and how to help.

A working group will be running in Silicon Valley this Friday from 5-10pm, and we will have virtual participation. Details at: http://www.eventbrite.com/myevent?eid=538771480

Please feel free to forward this email or advertise this project to your members - the more the merrier. We did send this information out to the

contact form for the ARRL.

I look forward to any information that you are able to provide!

Best,
Jeannie
--
Jeannie A. Stamberger, Ph.D.
Adjunct Faculty
Carnegie Mellon Silicon Valley
Disaster Management Initiative
NASA Ames Research Campus
Room 107, Building 23
Moffett Field, California
jeannie.stamberger@sv.cmu.edu
+1 (650) 380-1158

_____
tapr-announce mailing list

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from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

50. [tapr-announce] DCC Early Registration Deadline September 1st

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-08-30 14:15:15 UTC
From: Steven Bible <n7hpr@tapr.org>
Message-ID: <C8A1090D.81D7%n7hpr@tapr.org>
Source record: 87
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

The September 1st deadline to register for the DCC and get the best room rates is fast approaching.

The DCC activities planning are in the final stages:

- The DCC Proceedings is over 200 pages! See the list of papers below.
- The speakers schedule is being planned.
- Introductory talks.
- Banquet Speaker
- The Sunday Seminar on DSP Tools, Techniques, and Tricks presented by Rick Muething, KN6KB (see below for abstract)
- Wonderful location at the Heathman Lodge, Vancouver, WA (http://www.heathmanlodge.com)

If you have not attended the DCC, you are missing out on a lot of technical fun. Papers, presentations, demos, meeting like minded people. It is a great event. Ask anyone who has attended one!

To register for the DCC go to http://www.tapr.org/dcc. Hotel registration information is also located there. Be sure to mention the DCC for the discounted rate.

See you at the 2010 DCC!

73, DCC Planning Committee.

Sunday Seminar

DSP Tools, Techniques, and Tricks

Rick Muething, KN6KB

Time: Sunday Sept 26, 8 AM ﬀ 12 Noon

Prerequisites: An interest in Digital Signal Processing. Some experience in programming may be helpful. The only math you ﬀll need is addition, subtraction, multiplication and division and some idea of what a sine wave is.

Goals: The goal of the workshop is to encourage those peripherally interested in DSP to take the next step to learn what DSP can do and try some DSP design and coding. Each attendee will get a handout CD which will include all slides with links to useful references. The CD will also include some basic Windows VB.NET examples of operational code along with some useful DSP tools (demo versions).

Sessions: Four sessions 45 min each with 15 minute breaks.

1) DSP Intro and Basics: what we are trying to do with DSP. Why is it better/different than analog. The cornerstone of DSP .the Fourier Transform and the FFT.

2) DSP Tools: What you need to see, interpret and understand signals. Basic waveform processing utilities. How do you setup a sound card to capture and play back audio with examples. How to design basic DSP Filters using common tools.

3) DSP Techniques: How do we use DSP to do those things needed in a radio. Mixing, Filtering, Modulation, Demodulation, FSK, PSK, Tone Detection, AGC etc

4) DSP Tricks: Tricks of the trade to make the impractical possible. Common and useful tricks to make significant reductions in computer demands, Single tone detectors, decimation, windowing, CIC Filters, IQ sampling.

No seminar or workshop can cover this topic completely in a few hours but this workshop should remove some of the mystery of DSP and motivate those to learn what can be done and get more involved.

Bio: Rick is a retired entrepreneur electrical engineer and has been a ham since 1962. After volunteering for the Winlink Development effort in 1998 he focused his efforts on programming and DSP. Rick was responsible for the SCAMP, WINMOR and V4 sound card protocols described in the DCC 2004, 2008 and 2010 proceedings along with several of the software components of the Winlink 2000 system.

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Mobile Fading; Sachin Dubey and Kanchan Cecil

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Robotic Radio and CW Robot, a Building Block for Robotic Radio; Rob Frohne, KL7NA

SDR Cube: A Portable Software Defined Radio Utilizing An Embedded DSP Engine for
Quadrature Sampling Transceivers; George L. Heron, N2APB and Juha Niinikoski, OH2NLT

A Simple SDR Receiver; Michael Hightower, KF6SJ

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Five Port Router for Network on Chip; Swati Malviya and Anurag Jaiswal

V4 and V4Chat: A Protocol and Client Optimized for Keyboard Radio QSOs; Rick Muething, KN6KB, AAA9WK

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RMS Express ﷺ A Multimode Winlink 2000 User Client Program; Victor Poor, W5SMM/AAA9WL

Introducing APRSSpeak: An APRStt implementation; Douglas D. Quagliana, KA2UPW/5

A Comparison of Different TCP/IP and DTN Protocols Over the D-Star Digital Data Mode; John Ronan, EI7IG and Cathal O''Connor

Bidirectional Low Frequency Transverter (Bi-LIF) Computer Interface for Demodulation and Modulation of Radio Signals; Alex Schwarz , VE7DXW

An FPGA-Based Transceiver Module; John B. Stephensen, KD6OZH

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51. [tapr-announce] DCC Hotel Cutoff Date Extended to Sep 8th

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-01 03:42:27 UTC
From: Steven Bible <srbible@earthlink.net>
Message-ID: <18839913.1283312518518.JavaMail.root@mswamui-swiss.atl.sa.earthlink.net>
Source record: 88
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

The 29th Annual
ARRL and TAPR Digital Communications Conference
September 24-26, 2010 - Portland, Oregon
http://www.tapr.org/dcc

The Heathman Lodge, Vancouver, WA, conference hotel for the DCC has extended the room reservation cutoff date to September 8th. After this date rooms will be subject to space and rate availability. You can make your room reservations online at http://www.tapr.org/dcc. Scroll down to Hotel.

Transportation from the airport to the hotel - The nearest airport is the Portland International Airport (PDX). The Heathman Lodge will provide a complimentary airport shuttle service as a part of the DCC (this is not normaly a free service). Shuttle service is available from 0600 to 2300. A 10-day minimum advance reservation is required. Same day shuttle requests cannot be guaranteed but will be accommodated on an availability basis. For reservations please contact shuttle reservations at shuttle@heathmanlodge.com.

In conjunction with the hotel extending its cutoff date, TAPR will also extend its earlier bird conference price to Sep. 8th. Please sign up early as it helps with conference and meal preparations.

An excellent program is coming together. Be sure to attend and see what all the fun is about.

73, DCC Conference Committee

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52. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-07 16:40:49 UTC
From: Steve Smith <ab8yy@sbcglobal.net>
Message-ID: <i65puc$eq7$1@speranza.aioe.org>
Source record: 89

On 8/20/2010 4:53 PM, jimp@specsol.spam.sux.com wrote:
> Bert Hyman<bert@iphouse.com> wrote:
>> In news:q1r2k7-7l8.ln1@mail.specsol.com jimp@specsol.spam.sux.com wrote:
>>
>>> When you do that, every program I've seen so far sets the transmit
>>> audio offset, i.e. the effective transmit frequency, to the received
>>> audio offset.
>> OK; that's an important piece of information. I had simply assumed that
>> the generated audio would be at some fixed frequency.
>
> Digital QSO's normally take place on the same frequency for both sides, so
> the transmitter audio offset has to match the receiver audio offset for it
> to work.
>
>
This is typically done automatically by the software for you. Your
audio will be at the same tone as the receive if you are clicked onto
the receive waterfall, which you would be in order to receive the
station's data. So, no changes in transmitter or software will be needed.

53. Availables : More that 3750 Solutions manuals and Test Banks (Part 1)

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-21 01:46:45 UTC
From: Arthur Decker <marcdemoura@gmail.com>
Message-ID: <4058325d-74da-4f09-ac23-46d4dcff7f91@z25g2000vbn.googlegroups.com>
Source record: 90

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Solution manual Laminar Composites (George Staab)
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contact me to : mattosbw1@gmail.com
mattosbw1(at)gmail.com

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56. Re: Digital modes: What frequency am I on?

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-21 06:42:33 UTC
From: huale768 <huale768.6de3aa8@radiobanter.com>
Message-ID: <huale768.6de3aa8@radiobanter.com>
Source record: 93

Of all the signals in the receive passband, you need to select one to
deal
with.When you do that, every program I've seen so far sets the transmit
audiooffset, i.e. the effective transmit frequency, to the received
audio
offset.Assuming of course that both xmit and rcv VFO's are on the same
frequency.This is typically done automatically by the software for you.
Your
audio will be at the same tone as the receive if you are clicked onto
the receive waterfall, which you would be in order to receive the
station's data. So, no changes in transmitter or software will be
needed.

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huale768

57. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 02:16:25 UTC
From: Mike G <oilpan@optonline.net>
Message-ID: <4c9c09fb$0$20141$607ed4bc@cv.net>
Source record: 94
Cross-posted to: rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"I was hoping that anyone
> else that would like to see proprietary technology in amateur radio
> replaced by something open that can be inspected, learned from and
> improved"

Yes, it's called "Open Source"

On 7/1/2010 2:08 PM, Brian Morrison wrote:
> I was following up on the current situation with David Rowe's work
> on the Codec2 digital voice codec the other day, and noticed that it's
> not progressing much due to essentially lack of development time when
> David needs to put food on the table. So I decided to make a donation.
>
> I was absolutely astonished to receive a thank you from David that said
> "your are the first person to donate to Codec2", I really didn't expect
> that at all. Surely I thought, other people have been this way before?
> It seems not.
>
> Now, since I've put some money into the pot, I was hoping that anyone
> else that would like to see proprietary technology in amateur radio
> replaced by something open that can be inspected, learned from and
> improved, will visit the following link and see what they are prepared
> to donate:
>
> http://www.rowetel.com/ucasterisk/codec2.html#help
>

58. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 02:20:32 UTC
From: Mike G <oilpan@optonline.net>
Message-ID: <4c9c0af2$0$20150$607ed4bc@cv.net>
Source record: 95
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

For what reasons would someone be "anti D-Star"?

On 7/1/2010 2:15 PM, Brian Reay wrote:
> "Brian Morrison"<bdm@fenrir.org.uk> wrote in message
> news:20100701190840.63646ff0@peterson.fenrir.org.uk...
>> I was following up on the current situation with David Rowe's work
>> on the Codec2 digital voice codec the other day, and noticed that it's
>> not progressing much due to essentially lack of development time when
>> David needs to put food on the table. So I decided to make a donation.
>>
>> I was absolutely astonished to receive a thank you from David that said
>> "your are the first person to donate to Codec2", I really didn't expect
>> that at all. Surely I thought, other people have been this way before?
>> It seems not.
>
> I'm not that surprised, I've had similar responses to shareware type
> donations.
>
> Never the less, you've chipped in, perhaps others who are pro-digital but
> anti DSTAR will follow your example.
>

59. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 05:16:49 UTC
From: Steve Terry <gfourwwk@tesco.net>
Message-ID: <i7hc84$et7$1@news.eternal-september.org>
Source record: 96
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Mike G" <oilpan@optonline.net> wrote in message
news:4c9c0af2$0$20150$607ed4bc@cv.net...
> For what reasons would someone be "anti D-Star"?
<snip untrimmed top post>
>
Maybe because it's a commercial standard and commercial standards
have nothing to do with Amateur radio?

Steve Terry
--
"I would like to plead for my right to investigate natural phenomena
without having guns pointed at me.
I also ask for the right to be wrong without being hanged for it."
- Wilhelm Reich, November 1947

60. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 05:48:24 UTC
From: Brian Reay <seewebsite@invalid.com>
Message-ID: <IYWmo.53064$_V1.5903@newsfe08.ams2>
Source record: 97
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Mike G" <oilpan@optonline.net> wrote in message
news:4c9c0af2$0$20150$607ed4bc@cv.net...
> For what reasons would someone be "anti D-Star"?
>
They seem to have a few reasons but I will leave it to the anti-DStar
crowd to give them.

As for myself, it just isnt the sort of avenue I follow in the hobby but I'm
more than happy for others to.

--
73
Brian G8OSN/W8OSN
www.g8osn.net

61. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 08:00:58 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7hlo6qus1@news.eternal-september.org>
Source record: 98
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24/09/2010 03:20, Mike G wrote:
> For what reasons would someone be "anti D-Star"?
>

It's a closed codec - you can't look at it, play with it, improve it or adjust it.

In fact, being patented, it's ILLEGAL to do any of that.

Which means it's not amateur radio.

Hell, even the name is a registered trademark of Icom.

62. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 09:07:52 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9oqj8.tge.nomail@xs8.xs4all.nl>
Source record: 99
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Yeti <yeti@ayrshore.com> wrote:
> On 24/09/2010 03:20, Mike G wrote:
>> For what reasons would someone be "anti D-Star"?
>>
>
> It's a closed codec - you can't look at it, play with it, improve it or
> adjust it.
>
> In fact, being patented, it's ILLEGAL to do any of that.
>
> Which means it's not amateur radio.

Ok but if you have bought a commercial transceiver for amateur radio,
can you look at or improve upon any part of it?

E.g. the firmware that is running on the microprocessor(s) that control it?

63. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 09:24:22 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924102422.00004265@surtees.fenrir.org.uk>
Source record: 100
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24 Sep 2010 09:07:52 GMT
Rob <nomail@example.com> wrote:

> Yeti <yeti@ayrshore.com> wrote:
> > On 24/09/2010 03:20, Mike G wrote:
> >> For what reasons would someone be "anti D-Star"?
> >>
> >
> > It's a closed codec - you can't look at it, play with it, improve
> > it or adjust it.
> >
> > In fact, being patented, it's ILLEGAL to do any of that.
> >
> > Which means it's not amateur radio.
>
> Ok but if you have bought a commercial transceiver for amateur radio,
> can you look at or improve upon any part of it?
>
> E.g. the firmware that is running on the microprocessor(s) that
> control it?

No, but by studying the interfaces and functions you could design your
own processor and firmware that would replace the original.

With D-STAR unless you buy the pre-programmed DSP chips or the DV
dongle you can't legally reimplement the AMBE codec at all, and that
makes it very different from other kit that implements unpatented modes.

--

Brian Morrison

64. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 09:42:02 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9osja.tge.nomail@xs8.xs4all.nl>
Source record: 1
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Brian Morrison <bdm@fenrir.org.uk> wrote:
> With D-STAR unless you buy the pre-programmed DSP chips or the DV
> dongle you can't legally reimplement the AMBE codec at all, and that
> makes it very different from other kit that implements unpatented modes.

The problem is that amateurs cannot live with the fact that someone
implemented a codec that is better than what they can develop themselves.

There would be no problem when amateurs could actually develop a better
codec than AMBE. But they have not shown they can.

Everyone can put up a site with a statement that they want to develop
something and need donations. But this development needs more than
donations.

Sometimes is it better to just admit that someone did a better job than
you could have done yourself, and just pay him for the work.

65. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 09:57:24 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924105724.00001b9a@surtees.fenrir.org.uk>
Source record: 2
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24 Sep 2010 09:42:02 GMT
Rob <nomail@example.com> wrote:

> Brian Morrison <bdm@fenrir.org.uk> wrote:
> > With D-STAR unless you buy the pre-programmed DSP chips or the DV
> > dongle you can't legally reimplement the AMBE codec at all, and that
> > makes it very different from other kit that implements unpatented
> > modes.
>
> The problem is that amateurs cannot live with the fact that someone
> implemented a codec that is better than what they can develop
> themselves.

Really? I thought that what those of us that can't live with it thought
is that we don't like technology that locks out homebrew. That's what
the use of DVSI's AMBE codec does.

I don't know exactly why JARL chose AMBE other than because it was the
only codec available at the time. If so, they should have thought about
that a lot harder and perhaps decided to sponsor the development of a
free codec instead. That would have been really good, but I suppose I
can see that it would have introduced a delay. D-STAR has other faults,
one being that it appears not to be extensible so that there is no way
to include other codecs and allow the correct one to be used according
to the other user's set up.

>
> There would be no problem when amateurs could actually develop a
> better codec than AMBE. But they have not shown they can.

Well we'll see won't we? It's taken a while to find people with the
necessary expertise but Codec2 is now moving forward with people
working on it that have that expertise.

>
> Everyone can put up a site with a statement that they want to develop
> something and need donations. But this development needs more than
> donations.

Yes, it needs talent and for that you need exposure to collect them
together. That's happening now.

>
> Sometimes is it better to just admit that someone did a better job
> than you could have done yourself, and just pay him for the work.

I have no problem with that, remember that the "free" part of free software is referring to freedom, not money. But if someone refuses to provide something that I can look inside and understand then I won't use it.

It's called a choice.

--

Brian Morrison

66. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 10:15:52 UTC
From: Spike <Aero.Spike@S&T.invalid>
Message-ID: <3euo969m6gkj05j1oljudhm575ql0a8al5@4ax.com>
Source record: 3
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Rob wrote:

>The problem is that amateurs cannot live with the fact that someone
>implemented a codec that is better than what they can develop themselves.
>
>There would be no problem when amateurs could actually develop a better
>codec than AMBE. But they have not shown they can.
>
>Everyone can put up a site with a statement that they want to develop
>something and need donations. But this development needs more than
>donations.
>
>Sometimes is it better to just admit that someone did a better job than
>you could have done yourself, and just pay him for the work.

I think you need to study the implications of the words 'amateur',
'professional' and 'commercial', and then have a read of the Amateur
licence.

Spike

67. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 12:26:36 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7i5aainq1@news.eternal-september.org>
Source record: 4
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24/09/2010 10:07, Rob wrote:
> Yeti<yeti@ayrshore.com> wrote:
>> On 24/09/2010 03:20, Mike G wrote:
>>> For what reasons would someone be "anti D-Star"?
>>>
>>
>> It's a closed codec - you can't look at it, play with it, improve it or
>> adjust it.
>>
>> In fact, being patented, it's ILLEGAL to do any of that.
>>
>> Which means it's not amateur radio.
>
> Ok but if you have bought a commercial transceiver for amateur radio,
> can you look at or improve upon any part of it?
>
> E.g. the firmware that is running on the microprocessor(s) that control it?

Probably, yes.

Done similar in the past (modified firmware/programming software to let
commercial radios go out of band).

But if I want to operate on a given mode (AM/FM/SSB etc), I can build my
own, should I so choose, from whichever components I so choose.

If I was to lose my mind and choose to operate D-Star, I MUST buy an
AMBE chip.

68. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 13:54:46 UTC
From: Custos Custodum <me@privacy.net>
Message-ID: <Xns9DFD97B33CDDDcustos@81.169.183.62>
Source record: 5
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Yeti <yeti@ayrshore.com> wrote in news:i7hlo6qus1@news.eternal-september.org:

> On 24/09/2010 03:20, Mike G wrote:
>> For what reasons would someone be "anti D-Star"?
>>
>
> It's a closed codec - you can't look at it, play with it, improve it or
> adjust it.
>
> In fact, being patented, it's ILLEGAL to do any of that.

That's not strictly true. The whole point of a patent (from the Latin 'patere' - to reveal) is that an inventor discloses the workings of his invention to the public in return for legal protection and the exclusive right to prevent others from exploiting his invention commercially. It does not prevent others from studying the invention and designing improvements and even patenting those improvements if they meet the required criteria. Of course, it will not be possible to exploit those improvements without the permission of the holder of the original patent (and vice versa). Whether an individual may build a patented device for personal 'research' purposes will depend on the patent law in the country where the patent was granted.

> Which means it's not amateur radio.

I agree.

> Hell, even the name is a registered trademark of Icom.

69. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 14:05:38 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924150538.00001d7a@surtees.fenrir.org.uk>
Source record: 6
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On Fri, 24 Sep 2010 13:54:46 +0000 (UTC)
Custos Custodum <me@privacy.net> wrote:

> > In fact, being patented, it's ILLEGAL to do any of that.
>
> That's not strictly true. The whole point of a patent (from the Latin
> 'patere' - to reveal) is that an inventor discloses the workings of
> his invention to the public in return for legal protection and the
> exclusive right to prevent others from exploiting his invention
> commercially. It does not prevent others from studying the invention
> and designing improvements and even patenting those improvements if
> they meet the required criteria. Of course, it will not be possible
> to exploit those improvements without the permission of the holder of
> the original patent (and vice versa). Whether an individual may build
> a patented device for personal 'research' purposes will depend on the
> patent law in the country where the patent was granted.

The problem is that with something like AMBE, which is an algorithm,
the patents actually only apply to a few absolutely crucial operations
in the encoding/decoding but the text of the patent is as vague as
possible so that the patent can then be as widely applied as possible
and thus cover many alternative ways of doing the same thing.

It's nothing more than legalised extortion in reality, the existence
of the patent reveals very little to anybody because it's been written
to avoid doing exactly that. So the idea of the protection given
balancing the revelation of commercially beneficial information has
disappeared into the mists of time and patents are now used as a way to
tie your competitors up in legal knots even in the case of obvious and
trivial claims.

Now suppose that someone reverse engineered AMBE and made it available
to radio amateurs by putting the information into the public domain.
DVSI would have to take action to prevent this, because by not doing so
they would be undermining their own patent since failing to defend
against an infringing implementation could easily lead to the patent
becoming worthless.

--

Brian Morrison

70. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:02:49 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9pit9.6dh.nomail@xs8.xs4all.nl>
Source record: 7
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Brian Morrison <bdm@fenrir.org.uk> wrote:
> On 24 Sep 2010 09:42:02 GMT
> Rob <nomail@example.com> wrote:
>
>> Brian Morrison <bdm@fenrir.org.uk> wrote:
>> > With D-STAR unless you buy the pre-programmed DSP chips or the DV
>> > dongle you can't legally reimplement the AMBE codec at all, and that
>> > makes it very different from other kit that implements unpatented
>> > modes.
>>
>> The problem is that amateurs cannot live with the fact that someone
>> implemented a codec that is better than what they can develop
>> themselves.
>
> Really? I thought that what those of us that can't live with it thought
> is that we don't like technology that locks out homebrew. That's what
> the use of DVSI's AMBE codec does.

Not really. You can buy the chip that implements AMBE and use it
as part of a homebrew design.
That is really not much different from buying a power transistor to
get 100 Watts of output from your homebrew transceiver instead of
developing your own, or making your own transmitter tube.
Everyone chooses their own level of components to work from. Some
build the microcontroller for their transceivers from a Z-80, an
EPROM, a CMOS RAM and some LSTTL logic. Others use an integrated
microcontroller with everything on a chip. Still others buy a small
board with a functioning computer system on it and use it as part of
their transceiver.

> I don't know exactly why JARL chose AMBE other than because it was the
> only codec available at the time. If so, they should have thought about
> that a lot harder and perhaps decided to sponsor the development of a
> free codec instead. That would have been really good, but I suppose I
> can see that it would have introduced a delay. D-STAR has other faults,
> one being that it appears not to be extensible so that there is no way
> to include other codecs and allow the correct one to be used according
> to the other user's set up.

When the chose AMBE there really was no alternative. And even today,
you will not be able to find an open codec that offers speech quality
at the bitrate and bit error resilience that the AMBE codec does.

It is very easy to write "then lets develop that" and apparently much
harder to actually do so.

W.r.t. extensibility, it would sure be nice if codecs could be negotiated
and an alternative could be added, but it would not bring much to
D-STAR as there still would be different worlds of users that cannot
talk to eachother (those with the commercial Icom transceivers that
have AMBE and nothing else, and those with the homebrew transceivers
with open codec and no AMBE).

>> There would be no problem when amateurs could actually develop a
>> better codec than AMBE. But they have not shown they can.
>
> Well we'll see won't we? It's taken a while to find people with the
> necessary expertise but Codec2 is now moving forward with people
> working on it that have that expertise.

Given enough time, it could be that something is developed that is
open and does not violate patents. But I think it will take a lot
of time and there is little chance that at the end of this development
there is still a userbase left that wants to buy and use products
based on it.

>> Sometimes is it better to just admit that someone did a better job
>> than you could have done yourself, and just pay him for the work.
>
> I have no problem with that, remember that the "free" part of free
> software is referring to freedom, not money. But if someone refuses to
> provide something that I can look inside and understand then I won't
> use it.
>
> It's called a choice.

That is your choice. But that does not mean that others are wrong.

71. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:22:03 UTC
From: Brian Reay <seewebsite@invaild.com>
Message-ID: <Le4no.6848$Et1.99@newsfe06.ams2>
Source record: 8
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Rob" <nomail@example.com> wrote in message
news:slrni9pit9.6dh.nomail@xs8.xs4all.nl...

>> use it.
>>
>> It's called a choice.
>
> That is your choice. But that does not mean that others are wrong

Oh dear Rob, you must be new here! While what you say is, of course,
correct it isn't accepted by bigots.

If half of those who are so "anti" DStar got on an developed an alternative
CODEC (and it is just the CODEC which is proprietary), this debate would
have ended long ago. As it is, by the time the alternate CODEC becomes
viable, I fully expect that such systems will be so "yesterday".

Amateur radio has many facets, DStar is simply one of them. Why can't people
be left to enjoy their pet facets while others get on and enjoy theirs?

--
73
Brian G8OSN/W8OSN
www.g8osn.net

72. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:28:04 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7ijes$g79$1@news.eternal-september.org>
Source record: 9
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24/09/2010 17:22, Brian Reay wrote:

> Amateur radio has many facets, DStar is simply one of them. Why can't people
> be left to enjoy their pet facets while others get on and enjoy theirs?
>

Because D-Star isn't amateur radio.

There is no experimentation involved, and can't be.

73. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:33:33 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924173333.00005413@surtees.fenrir.org.uk>
Source record: 10
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24 Sep 2010 16:02:49 GMT
Rob <nomail@example.com> wrote:

> Brian Morrison <bdm@fenrir.org.uk> wrote:
> > On 24 Sep 2010 09:42:02 GMT
> > Rob <nomail@example.com> wrote:
> >
> >> Brian Morrison <bdm@fenrir.org.uk> wrote:
> >> > With D-STAR unless you buy the pre-programmed DSP chips or the DV
> >> > dongle you can't legally reimplement the AMBE codec at all, and
> >> > that makes it very different from other kit that implements
> >> > unpatented modes.
> >>
> >> The problem is that amateurs cannot live with the fact that someone
> >> implemented a codec that is better than what they can develop
> >> themselves.
> >
> > Really? I thought that what those of us that can't live with it
> > thought is that we don't like technology that locks out homebrew.
> > That's what the use of DVSI's AMBE codec does.
>
> Not really. You can buy the chip that implements AMBE and use it
> as part of a homebrew design.

I know, but that's *exactly* what a lot of people don't want to do.

> That is really not much different from buying a power transistor to
> get 100 Watts of output from your homebrew transceiver instead of
> developing your own, or making your own transmitter tube.

I think there is. Generating RF power from a transistor is not a
patented process, although the actual device may have some patents that
apply to it. If I had the money and skills I could build my own, but
that particular battle makes no sense. Not using a component that
includes an implementation of an algorithm that I'm not allowed to see
and understand is a different level from that, there is no secret sauce
in a power transistor but there is in the program that a DSP chip runs.

> Everyone chooses their own level of components to work from. Some
> build the microcontroller for their transceivers from a Z-80, an
> EPROM, a CMOS RAM and some LSTTL logic. Others use an integrated
> microcontroller with everything on a chip. Still others buy a small
> board with a functioning computer system on it and use it as part of
> their transceiver.

Indeed.

>
> > I don't know exactly why JARL chose AMBE other than because it was
> > the only codec available at the time. If so, they should have
> > thought about that a lot harder and perhaps decided to sponsor the
> > development of a free codec instead. That would have been really
> > good, but I suppose I can see that it would have introduced a
> > delay. D-STAR has other faults, one being that it appears not to be
> > extensible so that there is no way to include other codecs and
> > allow the correct one to be used according to the other user's set
> > up.
>
> When the chose AMBE there really was no alternative. And even today,
> you will not be able to find an open codec that offers speech quality
> at the bitrate and bit error resilience that the AMBE codec does.

Yet. The aim of Codec2 is to provide exactly that.

>
> It is very easy to write "then lets develop that" and apparently much
> harder to actually do so.

Of course, but there are people who can do it. I happen to care enough
to encourage them and put some money into the venture to pay for their
time.

>
> W.r.t. extensibility, it would sure be nice if codecs could be
> negotiated and an alternative could be added, but it would not bring
> much to D-STAR as there still would be different worlds of users that
> cannot talk to eachother (those with the commercial Icom transceivers
> that have AMBE and nothing else, and those with the homebrew
> transceivers with open codec and no AMBE).

I'm not interested in bringing something to D-STAR, I'm interested in
bringing something to amateur radio that provides the opportunity to
break away from a proprietary solution that doesn't offer a way of
doing the self-training bit of the licence.

>
> >> There would be no problem when amateurs could actually develop a
> >> better codec than AMBE. But they have not shown they can.
> >
> > Well we'll see won't we? It's taken a while to find people with the
> > necessary expertise but Codec2 is now moving forward with people
> > working on it that have that expertise.
>
> Given enough time, it could be that something is developed that is
> open and does not violate patents. But I think it will take a lot
> of time and there is little chance that at the end of this development
> there is still a userbase left that wants to buy and use products
> based on it.

Except that without actually achieving this it won't be possible to
tell, I'd prefer to do it and then see what happens. Part of the
attraction of Codec2 is that it doesn't only apply to amateur radio,
it's something that can be used in other free software/hardware
projects such as low cost telephony for developing countries with poor
infrastructure.

>
> >> Sometimes is it better to just admit that someone did a better job
> >> than you could have done yourself, and just pay him for the work.
> >
> > I have no problem with that, remember that the "free" part of free
> > software is referring to freedom, not money. But if someone refuses
> > to provide something that I can look inside and understand then I
> > won't use it.
> >
> > It's called a choice.
>
> That is your choice. But that does not mean that others are wrong.

Indeed. But until everyone has the choice between something they
control and something that they cannot control now, and probably never
will be able to, it is not possible to decide which solution is the
more sensible.

I'm not trying to kill D-STAR (although I would prefer that it had
never happened in its current form), but one of its problems is that it
doesn't encourage the best implementation because it comes in one form
only. If there are alternate ways to build compatible equipment then
the path to achieving the maximum performance is opened.

I don't want to see any of the other non-open digital radio standards
come into amateur radio either, I'm not actually against anything other
than the sacrifice of our ability to create our own designs without
having to use something that isn't free (as in freedom).

--

Brian Morrison

74. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:34:08 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9pko0.6dh.nomail@xs8.xs4all.nl>
Source record: 11
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Yeti <yeti@ayrshore.com> wrote:
> On 24/09/2010 17:22, Brian Reay wrote:
>
>> Amateur radio has many facets, DStar is simply one of them. Why can't people
>> be left to enjoy their pet facets while others get on and enjoy theirs?
>>
>
> Because D-Star isn't amateur radio.
>
> There is no experimentation involved, and can't be.

Over here it is probably the mode with the most experimentation going
on in ham radio today...

Of couse not with the codec.
But in any communication system there are things that cannot be changed
or incompatability would result.
That does not mean there cannot be experiments elsewhere in the system,
or in the application of the system as a whole.

Remember packet. The AX.25 protocol was open, but it could not really be
changed because that would break compatability between the many
implementations that existed after some time. It was very clear that
a couple of critical mistakes were made in the design, and there were
proposals on how to fix them, but they never took off as it simply
wasn't practical to change AX.25
It really made no difference if it was open or closed, it was unchangable
anyway.

Yet, amateurs used it as a black-box building block in many applications
and experimented a lot with it.

75. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:39:03 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924173903.00006981@surtees.fenrir.org.uk>
Source record: 12
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On Fri, 24 Sep 2010 17:22:03 +0100
"Brian Reay" <seewebsite@invaild.com> wrote:

> Oh dear Rob, you must be new here! While what you say is, of course,
> correct it isn't accepted by bigots.

I think you'll find that the only bigots involved here are the sort
that believe that amateur radio should encourage the use of closed
technology.

I believe that we should encourage the use of open technology and allow
radio amateurs to own their future. A sure way to kill amateur radio is
to make it dependent on corporations who do not share our interests at
a fundamental level.

--

Brian Morrison

76. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:43:53 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924174353.00003fc8@surtees.fenrir.org.uk>
Source record: 13
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24 Sep 2010 16:34:08 GMT
Rob <nomail@example.com> wrote:

> Yeti <yeti@ayrshore.com> wrote:
> > On 24/09/2010 17:22, Brian Reay wrote:
> >
> >> Amateur radio has many facets, DStar is simply one of them. Why
> >> can't people be left to enjoy their pet facets while others get on
> >> and enjoy theirs?
> >>
> >
> > Because D-Star isn't amateur radio.
> >
> > There is no experimentation involved, and can't be.
>
> Over here it is probably the mode with the most experimentation going
> on in ham radio today...
>
> Of couse not with the codec.
> But in any communication system there are things that cannot be
> changed or incompatability would result.
> That does not mean there cannot be experiments elsewhere in the
> system, or in the application of the system as a whole.
>
> Remember packet. The AX.25 protocol was open, but it could not
> really be changed because that would break compatability between the
> many implementations that existed after some time. It was very
> clear that a couple of critical mistakes were made in the design, and
> there were proposals on how to fix them, but they never took off as
> it simply wasn't practical to change AX.25
> It really made no difference if it was open or closed, it was
> unchangable anyway.
>
> Yet, amateurs used it as a black-box building block in many
> applications and experimented a lot with it.

And ultimately it failed (what's left of the packet network is a shadow
of what it was) because of that lack of flexibility.

Amateur radio has a difficult-to-overcome problem in that we always
build systems from the bottom up and don't design in the features that
allow growth and variation. D-STAR is another example of a system that
shares that same fault.

I hope that it's possible to create something that doesn't have these limitations, provides better function and allows more experimentation with all aspects of the technology.

--

Brian Morrison

77. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 16:51:07 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9plnr.6dh.nomail@xs8.xs4all.nl>
Source record: 14
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Brian Morrison <bdm@fenrir.org.uk> wrote:
> On Fri, 24 Sep 2010 17:22:03 +0100
> "Brian Reay" <seewebsite@invaild.com> wrote:
>
>> Oh dear Rob, you must be new here! While what you say is, of course,
>> correct it isn't accepted by bigots.
>
> I think you'll find that the only bigots involved here are the sort
> that believe that amateur radio should encourage the use of closed
> technology.

I think we should not encourage the use of closed technology, and I
think many agree with that.

But I also think we should not discourage developments (in the case of
D-STAR the development of a digital radio system) because in critical
places in the system open technology does not exist, and development
of such open technology is impractical.

In such cases we should allow, not encourage, the use of closed
technology.

I see the chip with the AMBE codec as a component. A component for
which we don't fully understand how it works, but we know how to
use it as part of a design.

Many amateurs have built electronics devices using components they
did not fully understand how they were designed. Or did not care.
It is possible to build an amateur radio transceiver using application
notes for integrated circuits and other devices without really knowing
what is inside the integrated circuits.

The AMBE codec is just such a circuit, just like an IF amp/demodulator
that you put in your receiver design by just copying the application note's
circuit.

78. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:00:24 UTC
From: Brian Reay <seewebsite@invaild.com>
Message-ID: <IO4no.75935$iL1.29269@newsfe05.ams2>
Source record: 15
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Brian Morrison" <bdm@fenrir.org.uk> wrote in message
news:20100924173903.00006981@surtees.fenrir.org.uk...
> On Fri, 24 Sep 2010 17:22:03 +0100
> "Brian Reay" <seewebsite@invaild.com> wrote:
>
>> Oh dear Rob, you must be new here! While what you say is, of course,
>> correct it isn't accepted by bigots.
>
> I think you'll find that the only bigots involved here are the sort
> that believe that amateur radio should encourage the use of closed
> technology.

I don't recall anyone seeking to only to encourage the use of closed
technology. May be some who are happy to use closed technology and those who
are happy to see that happen.
--
73
Brian G8OSN/W8OSN
www.g8osn.net

79. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:02:28 UTC
From: Brian Reay <seewebsite@invaild.com>
Message-ID: <EQ4no.75936$iL1.6008@newsfe05.ams2>
Source record: 16
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Yeti" <yeti@ayrshore.com> wrote in message
news:i7ijes$g79$1@news.eternal-september.org...
> On 24/09/2010 17:22, Brian Reay wrote:
>
>> Amateur radio has many facets, DStar is simply one of them. Why can't
>> people
>> be left to enjoy their pet facets while others get on and enjoy theirs?
>>
>
> Because D-Star isn't amateur radio.
>
> There is no experimentation involved, and can't be.

If the CODEC was open, or if the open CODEC ever comes to fruition, would
you have the knowledge / skills to undertake any meaningful experimentation
or even the remotest prospect of developing those skills?

--
73
Brian G8OSN/W8OSN
www.g8osn.net

80. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:08:15 UTC
From: Brian Reay <seewebsite@invaild.com>
Message-ID: <3W4no.75937$iL1.71246@newsfe05.ams2>
Source record: 17
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Rob" <nomail@example.com> wrote in message
news:slrni9pko0.6dh.nomail@xs8.xs4all.nl...
>
> Remember packet. The AX.25 protocol was open, but it could not really be
> changed because that would break compatability between the many
> implementations that existed after some time.

Which is something the "anti" AMBE CODEC people ignore.

If the open CODEC happens, their scope to "experiment" with it will be
limited- unless they only want to talk to themselves or with others they've
co-ordinated experiments with.

--
73
Brian G8OSN/W8OSN
www.g8osn.net

81. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:08:16 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924180816.0000411b@surtees.fenrir.org.uk>
Source record: 18
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On Fri, 24 Sep 2010 18:02:28 +0100
"Brian Reay" <seewebsite@invaild.com> wrote:

> "Yeti" <yeti@ayrshore.com> wrote in message
> news:i7ijes$g79$1@news.eternal-september.org...
> > On 24/09/2010 17:22, Brian Reay wrote:
> >
> >> Amateur radio has many facets, DStar is simply one of them. Why
> >> can't people
> >> be left to enjoy their pet facets while others get on and enjoy
> >> theirs?
> >>
> >
> > Because D-Star isn't amateur radio.
> >
> > There is no experimentation involved, and can't be.
>
> If the CODEC was open, or if the open CODEC ever comes to fruition,
> would you have the knowledge / skills to undertake any meaningful
> experimentation or even the remotest prospect of developing those
> skills?
>

That doesn't matter, the point is someone will have and will do so. We
can't all do everything in amateur radio, but we should not prevent
those that want to do something in particular from being able to do it.

--

Brian Morrison

82. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:10:03 UTC
From: Brian Reay <seewebsite@invaild.com>
Message-ID: <MX4no.75938$iL1.55142@newsfe05.ams2>
Source record: 19
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Brian Morrison" <bdm@fenrir.org.uk> wrote in message
news:20100924180816.0000411b@surtees.fenrir.org.uk...
>
> We
> can't all do everything in amateur radio, but we should not prevent
> those that want to do something in particular from being able to do it.

Exactly, so let those happy with DSTAR and the AMBE CODEC use it and enjoy
it.

You can do the same with your pet interests.

Win-Win.

--
73
Brian G8OSN/W8OSN
www.g8osn.net

83. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:13:59 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924181359.00006a8f@surtees.fenrir.org.uk>
Source record: 20
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24 Sep 2010 16:51:07 GMT
Rob <nomail@example.com> wrote:

> Brian Morrison <bdm@fenrir.org.uk> wrote:
> > On Fri, 24 Sep 2010 17:22:03 +0100
> > "Brian Reay" <seewebsite@invaild.com> wrote:
> >
> >> Oh dear Rob, you must be new here! While what you say is, of
> >> course, correct it isn't accepted by bigots.
> >
> > I think you'll find that the only bigots involved here are the sort
> > that believe that amateur radio should encourage the use of closed
> > technology.
>
> I think we should not encourage the use of closed technology, and I
> think many agree with that.

It seems entirely reasonable to me.

>
> But I also think we should not discourage developments (in the case of
> D-STAR the development of a digital radio system) because in critical
> places in the system open technology does not exist, and development
> of such open technology is impractical.
>
> In such cases we should allow, not encourage, the use of closed
> technology.

From a practical perspective I suppose that is the case, but it pains
me knowing that eventually the price of doing it will have to be paid.
Teach a man to fish etc.....

>
> I see the chip with the AMBE codec as a component. A component for
> which we don't fully understand how it works, but we know how to
> use it as part of a design.

Yes.

>
> Many amateurs have built electronics devices using components they
> did not fully understand how they were designed. Or did not care.
> It is possible to build an amateur radio transceiver using application
> notes for integrated circuits and other devices without really knowing
> what is inside the integrated circuits.

It is, but in the case of every other device it is possible to find out what's in there at least to a level where a full understanding is possible. And doing so would not be illegal.

>
> The AMBE codec is just such a circuit, just like an IF amp/demodulator
> that you put in your receiver design by just copying the application
> note's circuit.

Well, once the legal system gets, or threatens to get, involved then I'd contend that it isn't the same as a generic component. But I think we're close enough in the discussion now that we can let it rest :)

--

Brian Morrison

84. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:15:38 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924181538.00003f60@surtees.fenrir.org.uk>
Source record: 21
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On Fri, 24 Sep 2010 18:08:15 +0100
"Brian Reay" <seewebsite@invaild.com> wrote:

> "Rob" <nomail@example.com> wrote in message
> news:slrni9pko0.6dh.nomail@xs8.xs4all.nl...
> >
> > Remember packet. The AX.25 protocol was open, but it could not
> > really be changed because that would break compatability between
> > the many implementations that existed after some time.
>
> Which is something the "anti" AMBE CODEC people ignore.
>
> If the open CODEC happens, their scope to "experiment" with it will
> be limited- unless they only want to talk to themselves or with
> others they've co-ordinated experiments with.
>

Well the plan is that eventually any closed system becomes out evolved,
so the advantages of the open alternative become available to all. I am
more than happy to share, DVSI are not.

--

Brian Morrison

85. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:17:34 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924181734.0000012f@surtees.fenrir.org.uk>
Source record: 22
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On Fri, 24 Sep 2010 18:10:03 +0100
"Brian Reay" <seewebsite@invaild.com> wrote:

> "Brian Morrison" <bdm@fenrir.org.uk> wrote in message
> news:20100924180816.0000411b@surtees.fenrir.org.uk...
> >
> > We
> > can't all do everything in amateur radio, but we should not prevent
> > those that want to do something in particular from being able to do
> > it.
>
> Exactly, so let those happy with DSTAR and the AMBE CODEC use it and
> enjoy it.
>
> You can do the same with your pet interests.
>
> Win-Win.
>
>

I have no problem with allowing evolution to decide the future, it's a
good idea to make sure that some diversity evolves to allow that to
happen.

--

Brian Morrison

86. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 17:42:10 UTC
From: dplatt@radagast.org
Message-ID: <ig4vm7-igb.ln1@radagast.org>
Source record: 23
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

In article <3W4no.75937$iL1.71246@newsfe05.ams2>,
Brian Reay <seewebsite@invaild.com> wrote:

>> Remember packet. The AX.25 protocol was open, but it could not really be
>> changed because that would break compatability between the many
>> implementations that existed after some time.
>
>Which is something the "anti" AMBE CODEC people ignore.
>
>If the open CODEC happens, their scope to "experiment" with it will be
>limited- unless they only want to talk to themselves or with others they've
>co-ordinated experiments with.

Seems to me there's plenty of opportunity for flexibility with regards
to codecs. The protocol could be designed to allow for negotiation of
a common codec between two radios - start out with a simple
"universal" codec to get the communication started, and then
optionally switch to a different one.

Something like this is done in the commonest voice-over-IP protocol
family (SIP). There are numerous codecs available, ranging from
bog-standard telephony-style (uLaw and aLaw), to simple linear PCM, to
ADPCM, to various forms of sophisticated coding and compression. Some
of these require paid licenses (e.g. G729), some come with a
commercial- but-free license (e.g. ILBC), some are based on patents
which have now expired and can be implemented freely (e.g. versions of
GSM), and some are aggressively open-source and free-as-in-
speech-and-beer (e.g. Speex).

Protocol negotiation becomes tricker when you're dealing with a
repeater system, or a more-than-two-way simplex conversation, but
that's where the fun and experimentation comes in!

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

87. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 18:37:43 UTC
From: Brian Morrison <bdm@fenrir.org.uk>
Message-ID: <20100924193743.00005ec4@surtees.fenrir.org.uk>
Source record: 24
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On Fri, 24 Sep 2010 10:42:10 -0700
dplatt@radagast.org (Dave Platt) wrote:

> Seems to me there's plenty of opportunity for flexibility with regards
> to codecs. The protocol could be designed to allow for negotiation of
> a common codec between two radios - start out with a simple
> "universal" codec to get the communication started, and then
> optionally switch to a different one.

Yes, that's what's wanted, but the current D-STAR implementation
appears to have no flexibility to do this and there are no version
fields in the frame structure so it can't be made backwards compatible.
The design ought to have had this built in, but seems not to have
considered doing it.

--

Brian Morrison

88. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 18:38:17 UTC
From: M0WWS <gareth.paley@gmail.com>
Message-ID: <T8qdnZvG4IWEbQHRnZ2dnUVZ8oqdnZ2d@bt.com>
Source record: 25
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Rob" <nomail@example.com> wrote in message
news:slrni9pko0.6dh.nomail@xs8.xs4all.nl...
> Yeti <yeti@ayrshore.com> wrote:
>> On 24/09/2010 17:22, Brian Reay wrote:
>>
>>> Amateur radio has many facets, DStar is simply one of them. Why can't
>>> people
>>> be left to enjoy their pet facets while others get on and enjoy theirs?
>>>
>>
>> Because D-Star isn't amateur radio.
>>
>> There is no experimentation involved, and can't be.
>
> Over here it is probably the mode with the most experimentation going
> on in ham radio today...
>
That speaks volumes

>
> Remember packet. The AX.25 protocol was open, but it could not really be
> changed because that would break compatability between the many
> implementations that existed after some time.

There was nothing wrong with (A)X.25 it was designed for data over noisy channels. Same with CSMA - designed for multi use of same channel. Both open and partly developed by amateurs. Anyone remember ALOHAnet? - developed by Univesity of Hawaii and amateurs [1] not some commercial organisation like ICOM.

Maybe it's before you time Rob

1. http://en.wikipedia.org/wiki/Wireless_LAN#History

--
--
--
10-10deG1LVN

Amateur Radio: Social Networking since 1897

89. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 18:43:37 UTC
From: M0WWS <gareth.paley@gmail.com>
Message-ID: <RuGdnUDQxIvHbAHRnZ2dnUVZ8jCdnZ2d@bt.com>
Source record: 26
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Brian Morrison" <bdm@fenrir.org.uk> wrote in message
news:20100924174353.00003fc8@surtees.fenrir.org.uk...
>
> And ultimately it failed (what's left of the packet network is a shadow
> of what it was) because of that lack of flexibility.
>
Oh I don't know. APRS is a perfectly good solution, it's what AX.25 is soley
used for these days. We don't need location services and messaging tagged
onto D-STAR when AX.25 does this perfectly well.

--
--
--
10-10deG1LVN

Amateur Radio: Social Networking since 1897

90. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 18:49:43 UTC
From: M0WWS <gareth.paley@gmail.com>
Message-ID: <e_SdnYhewqVYbwHRnZ2dnUVZ8oqdnZ2d@bt.com>
Source record: 27
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

```
"Rob" <nomail@example.com> wrote in message
news:slrni9plnr.6dh.nomail@xs8.xs4all.nl...
> Brian Morrison <bdm@fenrir.org.uk> wrote:
>> On Fri, 24 Sep 2010 17:22:03 +0100
>> "Brian Reay" <seewebsite@invaild.com> wrote:
>>
>>> Oh dear Rob, you must be new here! While what you say is, of course,
>>> correct it isn't accepted by bigots.
>>
>> I think you'll find that the only bigots involved here are the sort
>> that believe that amateur radio should encourage the use of closed
>> technology.
>
> I think we should not encourage the use of closed technology, and I
> think many agree with that.
>
> But I also think we should not discourage developments (in the case of
> D-STAR the development of a digital radio system) because in critical
> places in the system open technology does not exist, and development
> of such open technology is impractical.
>

Except digital voice doesn't work on noisy channels, which makes it pretty
useless for _REAL radio amateurs unless someone is going to stick repeaters
up every half mile. - that's gonna mean a lot of money to ICOM in my book
even if there was enough fools to fund it.
```

91. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 19:53:56 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7ivgt$41q$1@news.eternal-september.org>
Source record: 28
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

```
On 24/09/2010 18:02, Brian Reay wrote:
> "Yeti"<yeti@ayrshore.com> wrote in message
> news:i7ijes$g79$1@news.eternal-september.org...
>> On 24/09/2010 17:22, Brian Reay wrote:
>>
>>> Amateur radio has many facets, DStar is simply one of them. Why can't
>>> people
>>> be left to enjoy their pet facets while others get on and enjoy theirs?
>>>
>>
>> Because D-Star isn't amateur radio.
>>
>> There is no experimentation involved, and can't be.
>
> If the CODEC was open, or if the open CODEC ever comes to fruition, would
> you have the knowledge / skills to undertake any meaningful experimentation
> or even the remotest prospect of developing those skills?
>

Change the record Brian, you come out with the same paragraph every time
this subject comes up - and you know the answer you're going to get.

I don't have the skills, or even the time, to take part - but it doesn't
stop me from encouraging the project as a matter of principal. A closed
codec has no place in Amateur Radio.

You won't find more than a handful of amateurs who would disagree with
that (except, of course, the ones who have already bought a D-Star rig).
```

92. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 19:55:40 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7ivk5$41q$2@news.eternal-september.org>
Source record: 29
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24/09/2010 18:08, Brian Reay wrote:
> "Rob"<nomail@example.com> wrote in message
> news:slrni9pko0.6dh.nomail@xs8.xs4all.nl...
> >
>> Remember packet. The AX.25 protocol was open, but it could not really be
>> changed because that would break compatability between the many
>> implementations that existed after some time.
>
> Which is something the "anti" AMBE CODEC people ignore.
>
> If the open CODEC happens, their scope to "experiment" with it will be
> limited- unless they only want to talk to themselves or with others they've
> co-ordinated experiments with.
>

In this case, you can always re-flash the chip containing your chosen
version of the codec.

Something very few had the capability to do back in the days when packet
was a big thing, and something you're expressely forbidden to do
(indeed, prevented from doing) with an AMBE DSP chip.

93. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 19:57:19 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7ivn7$41q$3@news.eternal-september.org>
Source record: 30
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24/09/2010 18:10, Brian Reay wrote:
> "Brian Morrison"<bdm@fenrir.org.uk> wrote in message
> news:20100924180816.0000411b@surtees.fenrir.org.uk...
> >
>> We
>> can't all do everything in amateur radio, but we should not prevent
>> those that want to do something in particular from being able to do it.
>
> Exactly, so let those happy with DSTAR and the AMBE CODEC use it and enjoy
> it.
>
> You can do the same with your pet interests.
>
> Win-Win.
>
>

I just hope the RSGB is as keen to licence Codec2 based repeaters as it
has been to licence D-Star based ones.

Or will the Codec2 team have to give the RSGB huge prizes for their
Radcom competitions to get the same treatment?

94. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 20:00:22 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7ivsv$41q$4@news.eternal-september.org>
Source record: 31
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 24/09/2010 19:24, Walt Davidson wrote:
> On Fri, 24 Sep 2010 10:21:15 +0100, Brian Morrison<bdm@fenrir.org.uk>
> wrote:
>
>> On Thu, 23 Sep 2010 22:20:32 -0400
>> Mike G<oilpan@optonline.net> wrote:
>>
>>> For what reasons would someone be "anti D-Star"?
>>
>> D-STAR uses a proprietary codec, that means for anyone that doesn't
>> believe that amateur radio should use technology that forbids reverse
>> engineering and hence interoperability with homebrew designs it's
>> not acceptable.
>
> It is rather curious, is it not, that it's often the same people who
> are aggressively in favour of D-Star "because it is leading edge
> technology", and yet are vociferous in their opposition to DAB
> broadcasting "because it is no better than the existing analogue
> systems".
>
> Funny world.
>
> 73 de G3NYY
>

Interesting analogy (pardon the pun) Walt.

DAB doesn't work for mobile use.

Neither does D-Star.

95. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 20:01:20 UTC
From: Len GM0ONX <gm0onx@gmail.com>
Message-ID: <i7j02f$4tc$2@news.eternal-september.org>
Source record: 32
Cross-posted to: uk.radio.amateur,rec.radio.amateur.digital.misc

On 24/09/2010 21:00, Yeti wrote:
> On 24/09/2010 19:24, Walt Davidson wrote:
>> On Fri, 24 Sep 2010 10:21:15 +0100, Brian Morrison<bdm@fenrir.org.uk>
>> wrote:
>>
>>> On Thu, 23 Sep 2010 22:20:32 -0400
>>> Mike G<oilpan@optonline.net> wrote:
>>>
>>>> For what reasons would someone be "anti D-Star"?
>>>
>>> D-STAR uses a proprietary codec, that means for anyone that doesn't
>>> believe that amateur radio should use technology that forbids reverse
>>> engineering and hence interoperability with homebrew designs it's
>>> not acceptable.
>>
>> It is rather curious, is it not, that it's often the same people who
>> are aggressively in favour of D-Star "because it is leading edge
>> technology", and yet are vociferous in their opposition to DAB
>> broadcasting "because it is no better than the existing analogue
>> systems".
>>
>> Funny world.
>>
>> 73 de G3NYY
>>
>
> Interesting analogy (pardon the pun) Walt.
>
> DAB doesn't work for mobile use.
>
> Neither does D-Star.

You'll be getting an email from you know who!

96. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 20:11:02 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7j0gv$bm7$2@news.eternal-september.org>
Source record: 33
Cross-posted to: uk.radio.amateur,rec.radio.amateur.digital.misc

```
On 24/09/2010 21:01, Len GM0ONX wrote:
> On 24/09/2010 21:00, Yeti wrote:
>> On 24/09/2010 19:24, Walt Davidson wrote:
>>> On Fri, 24 Sep 2010 10:21:15 +0100, Brian Morrison<bdm@fenrir.org.uk>
>>> wrote:
>>>
>>>> On Thu, 23 Sep 2010 22:20:32 -0400
>>>> Mike G<oilpan@optonline.net> wrote:
>>>>
>>>>> For what reasons would someone be "anti D-Star"?
>>>>
>>>> D-STAR uses a proprietary codec, that means for anyone that doesn't
>>>> believe that amateur radio should use technology that forbids reverse
>>>> engineering and hence interoperability with homebrew designs it's
>>>> not acceptable.
>>>
>>> It is rather curious, is it not, that it's often the same people who
>>> are aggressively in favour of D-Star "because it is leading edge
>>> technology", and yet are vociferous in their opposition to DAB
>>> broadcasting "because it is no better than the existing analogue
>>> systems".
>>>
>>> Funny world.
>>>
>>> 73 de G3NYY
>>>
>>
>> Interesting analogy (pardon the pun) Walt.
>>
>> DAB doesn't work for mobile use.
>>
>> Neither does D-Star.
>
> You'll be getting an email from you know who!

They always make me laugh.

But I think he's given up now.
```

97. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 20:19:55 UTC
From: gm4dhj/m <jim.gm4dhj@ntlworld.com>
Message-ID: <i7j15f$bh0$1@news.eternal-september.org>
Source record: 34
Cross-posted to: uk.radio.amateur,rec.radio.amateur.digital.misc

"Yeti" <yeti@ayrshore.com> wrote in message
news:i7j0gv$bm7$2@news.eternal-september.org...
> On 24/09/2010 21:01, Len GM0ONX wrote:
>> On 24/09/2010 21:00, Yeti wrote:
>>> On 24/09/2010 19:24, Walt Davidson wrote:
>>>> On Fri, 24 Sep 2010 10:21:15 +0100, Brian Morrison<bdm@fenrir.org.uk>
>>>> wrote:
>>>>
>>>>> On Thu, 23 Sep 2010 22:20:32 -0400
>>>>> Mike G<oilpan@optonline.net> wrote:
>>>>>
>>>>>> For what reasons would someone be "anti D-Star"?
>>>>>
>>>>> D-STAR uses a proprietary codec, that means for anyone that doesn't
>>>>> believe that amateur radio should use technology that forbids reverse
>>>>> engineering and hence interoperability with homebrew designs it's
>>>>> not acceptable.
>>>>
>>>> It is rather curious, is it not, that it's often the same people who
>>>> are aggressively in favour of D-Star "because it is leading edge
>>>> technology", and yet are vociferous in their opposition to DAB
>>>> broadcasting "because it is no better than the existing analogue
>>>> systems".
>>>>
>>>> Funny world.
>>>>
>>>> 73 de G3NYY
>>>>
>>>
>>> Interesting analogy (pardon the pun) Walt.
>>>
>>> DAB doesn't work for mobile use.
>>>
>>> Neither does D-Star.
>>
>> You'll be getting an email from you know who!
>
> They always make me laugh.
>
> But I think he's given up now.

0ops ?....

98. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-24 20:28:41 UTC
From: dplatt@radagast.org
Message-ID: <p8evm7-c8f.ln1@radagast.org>
Source record: 35
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

In article <20100924193743.00005ec4@surtees.fenrir.org.uk>,
Brian Morrison <bdm@fenrir.org.uk> wrote:

>> Seems to me there's plenty of opportunity for flexibility with regards
>> to codecs. The protocol could be designed to allow for negotiation of
>> a common codec between two radios - start out with a simple
>> "universal" codec to get the communication started, and then
>> optionally switch to a different one.
>
>Yes, that's what's wanted, but the current D-STAR implementation
>appears to have no flexibility to do this and there are no version
>fields in the frame structure so it can't be made backwards compatible.
>The design ought to have had this built in, but seems not to have
>considered doing it.

I agree, that was a bad design choice. I always like to put
field-type and field-version tags into the data structures I use...
it's a bit more work up front but saves an incredible amount of pain
further along the line!

Anybody for "Free*Star"? :-)

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

99. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 05:34:45 UTC
From: Steve Terry <gfourwwk@tesco.net>
Message-ID: <i7k1lntdc1@news.eternal-september.org>
Source record: 36
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Yeti" <yeti@ayrshore.com> wrote in message
news:i7ijes$g79$1@news.eternal-september.org...
> On 24/09/2010 17:22, Brian Reay wrote:
>
>> Amateur radio has many facets, DStar is simply one of them. Why can't
>> people
>> be left to enjoy their pet facets while others get on and enjoy theirs?
>
> Because D-Star isn't amateur radio.
>
> There is no experimentation involved, and can't be.
>
>
Don't confuse Brian with logic, he has his faith in that choice must be good
no matter who provides it or what their motives are.

Steve Terry
--
"I would like to plead for my right to investigate natural phenomena
without having guns pointed at me.
I also ask for the right to be wrong without being hanged for it."
- Wilhelm Reich, November 1947

100. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 07:06:03 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9r7qr.6dh.nomail@xs8.xs4all.nl>
Source record: 37
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Yeti <yeti@ayrshore.com> wrote:
> I don't have the skills, or even the time, to take part - but it doesn't
> stop me from encouraging the project as a matter of principal. A closed
> codec has no place in Amateur Radio.

It is striking how many of the proponents of development of an open codec
and opponents of a closed codec are amongst those that do not have any
idea how to develop a codec...

101. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 07:32:41 UTC
From: Brian Reay <seewebsite@invalid.com>
Message-ID: <tAhno.24488$6S3.10884@newsfe28.ams2>
Source record: 38
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Rob" <nomail@example.com> wrote in message
news:slrni9r7qr.6dh.nomail@xs8.xs4all.nl...
> Yeti <yeti@ayrshore.com> wrote:
>> I don't have the skills, or even the time, to take part - but it doesn't
>> stop me from encouraging the project as a matter of principal. A closed
>> codec has no place in Amateur Radio.
>
> It is striking how many of the proponents of development of an open codec
> and opponents of a closed codec are amongst those that do not have any
> idea how to develop a codec...
>

ROTFL

Or have even contributed to the development fund. (It was recently reported by a contributor to uk.radio.amateur that he was the first person to have sent a donation. (Stands by for the latest excuse from one of our Scottish amateurs as to why he can't cough up YETI again this month.))

Personally, I don't see the attraction of DStar like systems, regardless of the choice of CODEC. However, I'm more than happy for others to enjoy them. I just wish the bleating crew would go and make this open CODEC happen.

--

102. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 10:04:41 UTC
From: Rob <nomail@example.com>
Message-ID: <slrni9ri9p.6dh.nomail@xs8.xs4all.nl>
Source record: 39
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

```
Brian Morrison <bdm@fenrir.org.uk> wrote:
> On 25 Sep 2010 07:06:03 GMT
> Rob <nomail@example.com> wrote:
>
>> Yeti <yeti@ayrshore.com> wrote:
>> > I don't have the skills, or even the time, to take part - but it doesn't
>> > stop me from encouraging the project as a matter of principal. A closed
>> > codec has no place in Amateur Radio.
>>
>> It is striking how many of the proponents of development of an open codec
>> and opponents of a closed codec are amongst those that do not have any
>> idea how to develop a codec...
>
> The skills required to do the job are few and far between. The
> community of people who can do good DSP design and coding is small.

Not only that (I have done DSP coding for filters and modems myself),
but in this case there is the additional difficulty of finding the methods
and algorithms to code speech into very few bits. This requires lots of
knowledge and research, and what is already known is usually patented.
Often the research is done partly in a scientific research institute
or at a university, and partly in a commercial company allied to such
an institute. Lots of man-hours of highly qualified people go into this.

But the community of people who think that "WE should develop an
open codec" and "when we had more donations we could..." seems to be
thinking that this is project that a couple of amateurs could do better.

We should develop an open space rocket to propel our geostationary OSCAR
into space. Sure.

But we better admit that we cannot do that and set achievable goals.
```

103. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 10:28:14 UTC
From: Spike <Aero.Spike@S&T.invalid>
Message-ID: <nljr96d26qenf70uhgsl03cf89hua0in6n@4ax.com>
Source record: 40
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Rob wrote:

>
>We should develop an open space rocket to propel our geostationary OSCAR
>into space. Sure.
>
>But we better admit that we cannot do that and set achievable goals.

Straw man.

Spike

104. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 11:51:29 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7knkatom1@news.eternal-september.org>
Source record: 41
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 25/09/2010 08:06, Rob wrote:
> Yeti<yeti@ayrshore.com> wrote:
>> I don't have the skills, or even the time, to take part - but it doesn't
>> stop me from encouraging the project as a matter of principal. A closed
>> codec has no place in Amateur Radio.
>
> It is striking how many of the proponents of development of an open codec
> and opponents of a closed codec are amongst those that do not have any
> idea how to develop a codec...

I don't know to build a nuclear power station either - doesn't stop me
being in favour of them over wind power.

105. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 11:53:51 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7knootom2@news.eternal-september.org>
Source record: 42
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 25/09/2010 08:32, Brian Reay wrote:
> "Rob"<nomail@example.com> wrote in message
> news:slrni9r7qr.6dh.nomail@xs8.xs4all.nl...
>> Yeti<yeti@ayrshore.com> wrote:
>>> I don't have the skills, or even the time, to take part - but it doesn't
>>> stop me from encouraging the project as a matter of principal. A closed
>>> codec has no place in Amateur Radio.
>>
>> It is striking how many of the proponents of development of an open codec
>> and opponents of a closed codec are amongst those that do not have any
>> idea how to develop a codec...
>>
>
> ROTFL
>
> Or have even contributed to the development fund. (It was recently reported
> by a contributor to uk.radio.amateur that he was the first person to have
> sent a donation. (Stands by for the latest excuse from one of our Scottish
> amateurs as to why he can't cough up YETI again this month.))

Actually, I can this month. Someone remind me who I send it to please!

Can't afford it next month cos the RSGB want their fees off me then, and
I'll be on holiday for at least a week of it too - so I'd better get it
done now.

> Personally, I don't see the attraction of DStar like systems, regardless of
> the choice of CODEC. However, I'm more than happy for others to enjoy them.
> I just wish the bleating crew would go and make this open CODEC happen.
>

Didn't you read the first post? It's happening!

106. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 12:00:17 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7ko4v$f6$1@news.eternal-september.org>
Source record: 43
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

On 25/09/2010 11:04, Rob wrote:

> We should develop an open space rocket to propel our geostationary OSCAR
> into space. Sure.

A Geostationary OSCAR - what a terrible idea!

107. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-25 12:08:32 UTC
From: Yeti <yeti@ayrshore.com>
Message-ID: <i7kokn$2cs$1@news.eternal-september.org>
Source record: 44
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

```
On 25/09/2010 11:55, Brian Morrison wrote:
> On 25 Sep 2010 10:04:41 GMT
> Rob<nomail@example.com> wrote:
>
>> Brian Morrison<bdm@fenrir.org.uk> wrote:
>>> On 25 Sep 2010 07:06:03 GMT
>>> Rob<nomail@example.com> wrote:
>>>
>>>> Yeti<yeti@ayrshore.com> wrote:
>>>>> I don't have the skills, or even the time, to take part - but it doesn't
>>>>> stop me from encouraging the project as a matter of principal. A closed
>>>>> codec has no place in Amateur Radio.
>>>>
>>>> It is striking how many of the proponents of development of an open codec
>>>> and opponents of a closed codec are amongst those that do not have any
>>>> idea how to develop a codec...
>>>
>>> The skills required to do the job are few and far between. The
>>> community of people who can do good DSP design and coding is small.
>>
>> Not only that (I have done DSP coding for filters and modems myself),
>> but in this case there is the additional difficulty of finding the methods
>> and algorithms to code speech into very few bits. This requires lots of
>> knowledge and research, and what is already known is usually patented.
>> Often the research is done partly in a scientific research institute
>> or at a university, and partly in a commercial company allied to such
>> an institute. Lots of man-hours of highly qualified people go into this.
>
> Very true, we are fortunate that David Rowe already had the knowledge
> and background to do this, and was available to do the work. Others can
> assist, but I think they did not have the time required.
>
>>
>> But the community of people who think that "WE should develop an
>> open codec" and "when we had more donations we could..." seems to be
>> thinking that this is project that a couple of amateurs could do better.
>
> I've never thought that, I knew that the only solution was an amateur
> who was also knowledgeable and experienced in the techniques needed.
>
>>
>> We should develop an open space rocket to propel our geostationary OSCAR
>> into space. Sure.
```

>
> Don't think rockets are patented, just seriously expensive.
>
>>
>> But we better admit that we cannot do that and set achievable goals.
>
> I think Codec2 is achievable, but I certainly agree that a
> geostationary OSCAR is asking a great deal, getting it there is one
> thing, keeping it there and monitoring it and keeping it healthy is
> quite another.
>

More importantly, keeping it useable, and free from abuse will be impossible. (Ref: US SATCOM on 255.550 downlink, widely pirated by half of Brazil)

108. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-26 09:14:53 UTC
From: Steve Terry <gfourwwk@tesco.net>
Message-ID: <i7n2ui$79r$1@news.eternal-september.org>
Source record: 45
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

"Brian Reay" <seewebsite@invaild.com> wrote in message
news:3W4no.75937$iL1.71246@newsfe05.ams2...
> "Rob" <nomail@example.com> wrote in message
> news:slrni9pko0.6dh.nomail@xs8.xs4all.nl...
<snip>
> If the open CODEC happens, their scope to "experiment" with it will be
> limited- unless they only want to talk to themselves or with others
> they've co-ordinated experiments with.
> 73
> Brian G8OSN/W8OSN
>
>
Except for the scope to experiment, you have just described D-Star.

Steve Terry
--
"I would like to plead for my right to investigate natural phenomena
without having guns pointed at me.
I also ask for the right to be wrong without being hanged for it."
- Wilhelm Reich, November 1947

109. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-27 17:07:35 UTC
From: Brian Kantor <brian@ucsd.edu>
Message-ID: <l9f0wn.52n@ucsd.edu>
Source record: 46
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

>>appears to have no flexibility to do this and there are no version
>>fields in the frame structure so it can't be made backwards compatible.
>>The design ought to have had this built in, but seems not to have
>>considered doing it.

The exact same stupidity has long crippled the advancement of the
AX.25 protocol, and the APRS protocol, and nearly every other *amateur*
designed protocol.

Worse, AX.25 was coded into law (in the USA, and elsewhere), thus
preventing any other air protocols from even having a chance because
they could not be used, or used unattended, such as a BBS.

D*Star apparently has the same problem - it's a lot like commercial P25
(or MotoTRBO), but it's a lot different too, and there's really no way
to fix that.

And how about all those surplus TETRA radios? Yah, the USA can't currently
use TETRA for commercial/industrial radio, but the rest of the world does
and there's nothing stopping USA hams from doing so.

I sure would like to see someone make an off-the-shelf digital voice ham
radio that made use of openly-available codecs, especially if they were
flashable.

AX.25's other remaining use, that of carrying tcp/ip, has also got a
real problem: the minimum IPv6 packet is bigger than the maximum AX.25
packet. Oops.
- Brian

110. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-27 20:33:19 UTC
From: Rob <nomail@example.com>
Message-ID: <slrnia1vsf.186.nomail@xs8.xs4all.nl>
Source record: 47
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Brian Kantor <brian@ucsd.edu> wrote:
> The exact same stupidity has long crippled the advancement of the
> AX.25 protocol, and the APRS protocol, and nearly every other *amateur*
> designed protocol.

Fortunately there were a couple of unused bits in the AX.25 header
that were used for AX.25 v2, DAMA, and Extended Sequence numbers.
But more flexibility would certainly have been welcome.

> AX.25's other remaining use, that of carrying tcp/ip, has also got a
> real problem: the minimum IPv6 packet is bigger than the maximum AX.25
> packet. Oops.

There is a segmentation protocol at AX.25 level (defined by Phil Karn
and used in NET/NOS) that allows the segmentation of a single IP datagram
over multiple AX.25 frames.

With a new PID it could be used for IPv6 over AX.25.

Of course, the headers of IPv4 are already considered big in the
amateur packet radio world. At the datarates typically used, one
wants to conserve on header size.

111. Re: Codec2 - putting your money where your mouth is

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-28 11:15:13 UTC
From: Brian Kantor <brian@ucsd.edu>
Message-ID: <l9gf9d.8y9@ucsd.edu>
Source record: 48
Cross-posted to: uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.digital.misc

Rob <nomail@example.com> wrote:
>Of course, the headers of IPv4 are already considered big in the
>amateur packet radio world. At the datarates typically used, one
>wants to conserve on header size.

Yes, some have tried using Van Jacobsen header prediction to cut down on the size of the actual transmitted header - a rather nice solution, but not really workable in a lossy datagram world.

So far the best method seems to be (using a separate pid) an adaptation of the SLIP with compression and header prediction over a connected-mode (i.e, reliable stream). This adds packet framing and reduces the overhead a bit, and at 9600 bps or faster, is actually slightly faster than a carrier pigeon. It also places the burden of retries on the air link where it belongs, rather than end-to-end, which is clearly the wrong place to do it.

A number of F-S-U folks have been doing some very interesting work in real high-speed packet (230 kb/s or faster, some multi-Mb/s), and such links would easily support digital voice without much need for super-bandwidth-conserving codecs.

GSM and similar codecs are now easily available in software implementations; these work quite well at an air rate of 9600 or sometimes less. Some are free of significant encumbrances that would hinder widespread usage.

In the land mobile radio regime, the ultimate goal is to reduce the consumed bandwidth so as to stack more customers in the same band. Hams have no such need; if anything we have (shhh!) more bandwidth than we need on the VHF and up bands, so using extremely narrowband codecs just isn't something we need to do.
- Brian

112. [tapr-announce] PSR looking for a few good memes

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-09-28 23:08:55 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4CA2755F.6030106@sbcglobal.net>
Source record: 49
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

It is time to get out your favorite writing instrument and put down
some good words for the next issue of PSR, TAPR's quarterly newsletter.

What project(s) are you working on? What project(s) would you like to be
working on? We would like to read all about it.

Write any neat software that you'd like to brag about; we'd love to read
about that, too.

Did you attend the DCC? If so, write about the experience.

Remember, if we publish your submission, we will extend your TAPR
membership by a quarter year. (So if you write an article for every
issue, you will never have to pay membership dues again! What a deal!!!)

So quick like a brown fox, send your submission to me, the PSR editor,
by October 15, which happens to be the deadline for the next issue of PSR.

73,

wa1lou @ tapr.org

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tapr-announce mailing list

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Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe
from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

113. [tapr-announce] PSR deadline

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-10-15 23:04:36 UTC
From: Stan Horzepa <stanzepa@sbcglobal.net>
Message-ID: <4CB8DDDA.6060105@sbcglobal.net>
Source record: 50
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

The deadline for the next issue of TAPR's quarterly newsletter, PSR,
is today, so if you have anything to contribute to PSR, please get it to
me as soon as you can.

Thank you and 73,

Stan, WA1LOU
PSR Editor

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tapr-announce mailing list

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114. HOT ACTRESS

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-10-23 14:31:24 UTC
From: suma <satyamsivam9030@gmail.com>
Message-ID: <69f88512-2f30-479c-86fb-1870c7403822@l25g2000prn.googlegroups.com>
Source record: 201

AISHWARIYA LATEST HOT PICS

http://babes-devi.blogspot.com/2010/10/aish-latest-pics.html

SOUTHACTRESS IN A SEXY TOWELS

http://babes-devi.blogspot.com/2010/10/south-actress-in-sexy-towels.html

UDAYATHRA IN A BATH ROOM

http://babes-devi.blogspot.com/2010/10/udayatara-in-bath.html

ACTRESS IN A HOT RED DRESS

http://babes-devi.blogspot.com/2010/10/actress-in-sexy-red-dress.html

ASIN CUTE HOT PHOTOS

http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html

SEXY CHARMI IN A BATH

http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html

FOR HOT PHOTOS&VIDEOS

http://babes-devi.blogspot.com/2010_06_01_archive.html

HOT SEXY BOOBS SHOW

http://babes-devi.blogspot.com/2010/09/sexy-boobs.html

ASIN CUTE HOT PHOTOS

http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html

MALLIKA SHARAWAT UNBELIVABLE PHOTOS

http://babes-devi.blogspot.com/2010/08/sexy-mallika.html

ANKHITA SPICY PHOTOS

http://babes-devi.blogspot.com/2010/08/sexy-ankhitha.html

115. [tapr-announce] Two TAPR HPSDR Announcements: Metis Gigabit Ethernet Interface and Alex Filter

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-11-02 01:29:43 UTC
From: John Ackermann N8UR <jra@febo.com>
Message-ID: <4CCF5ACE.7070605@febo.com>
Source record: 202
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

Here are TWO important HPSDR announcements from TAPR.

****

HPSDR Metis Gigabit Ethernet Interface Board Announcement!

TAPR announces the planned production of Metis Gigabit Ethernet
Interface Boards for the High Performance Software Defined Radio (HPSDR)
project. We invite you to show your interest on or before November 15th,
2010.

We are doing a single volume build, and it is uncertain when the next
one will be, or if there will even be a next one. This is a very
exciting project, and we don't want anyone to be left out.

We now have pricing information on the web page and request that you
show your interest by visiting the interest page and entering the number
of Metis boards that you want to purchase.

More information here: http://openhpsdr.org/wiki/index.php?title=METIS

Go to: HTTP://www.hamsdr.com

Login and go to Projects > TAPR-HPSDR and follow instructions provided
on that page.

****

HPSDR Alex LPF/HPF Filter Boardset Announcement!

TAPR is approaching production on the Alex LPF and HPF filter boards. In
order to get a more up to date indication of interest, the interest list
numbers were cleared on October 18, 2010.

Please re-enter your current interest in Alex RX (HPF), Alex TX (LPF)
and Alex Enclosure on the list.

More information here: http://openhpsdr.org/wiki/index.php?title=ALEXIARES

Go to: HTTP://www.hamsdr.com

Login and go to Projects > TAPR-HPSDR and follow instructions provided
on that page.

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from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

116. RF Analog to Digital Converter

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-11-11 12:34:43 UTC
From: ashwanthh <ashwanthh.721d998@radiobanter.com>
Message-ID: <ashwanthh.721d998@radiobanter.com>
Source record: 203

Hi all,

Can anyone tell how many bit ADC to be used for the RF signal
conversion upto 2Ghz

--
ashwanthh

117. music

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-11-15 11:18:40 UTC
From: jacks tevens <jacksseven@gmail.com>
Message-ID: <8493149c-8d0e-4746-9a48-9d00ac4a596e@x4g2000pre.googlegroups.com>
Source record: 204

http://www.99gouwu.com/
http://www.oumuan.com/
http://www.chinaocindustry.com/
http://www.anbaotech.com/
http://www.eastjx.com
http://www.cqhanchi.com/
http://www.yazhifeng.com/
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http://www.zjgcgjj.com/
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http://www.ctusb.com/
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http://www.bjhanwei.net/
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http://www.jswled.com/
http://www.dlnsd.com
http://www.green110.net/
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http://www.suzhoubm.cn/
http://www.yyxf119.com/
http://www.sz-lvshi8.cn/
http://www.eastshuo.com/
http://www.sz-wsd.com/
http://www.jinhuiad.com/
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http://www.czmmms.com/
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http://www.longxingwendin.com/
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http://hailong666.com/
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http://www.genhao4.cn/
http://www.bjzx.org/
http://www.qsfrj.com/
http://www.tkglgf.com/
http://www.2dingsoft.com/
http://www.dah626.com/
http://www.gyscl.com/
http://www.ahxinpai.com/
http://www.dhtoy.com/
http://www.dcspj.cn/
http://www.green-link.com.cn/
http://www.hndcg.com/
http://www.hyxkcctv.com/
http://www.hyxtech.com/
http://www.scmspm.com/
http://hd-kuangye.com/
http://www.bxsd.net/
http://www.ypwang.com.cn/
http://www.hzlinjia.com/
http://www.csfs88.com/
http://www.jattao.com/
http://xyfxkc.com/
http://www.a5mm.com/ch/
http://www.tyok.net/
http://www.shnbsy.com/
http://www.dlzhenghong.com/
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http://www.whwcjn.cn/
http://www.jnjpsk.com/
http://www.ylltdl.com/
http://www.apjinkangyuan.com/
http://www.jnqnzs.com/
http://www.vip7788.com/
http://www.wfjs88.com/
http://www.xdfpsg.com/default.asp
http://www.smartfj.com/
http://www.sxztq.com/
http://www.xjts.net/
http://www.jcjhgc.com/
http://www.szbaorun.com/
http://www.cjreal.com.cn/
http://www.kymsjd.com.cn/

http://www.urainbow.net/
http://www.zbrym.com/
http://www.kayinapiano.com/
http://www.jzgzc.com/
http://www.lydyj.cn/
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http://www.cz-xw.cn/
http://www.ccshsb.cn/
http://www.029hk.com/ch/main.asp
http://pld-pco.com/
http://www.jhc99.com/
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http://www.goodwillcd.com/
http://www.dlxincheng.com/
http://www.lixinsheng.com/
http://www.szt.com.cn/
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http://www.shtt88.cn/
http://www.37297.com/
http://www.jyrcjd.com/
http://www.jzjcwm.com/
http://www.cdsanjia.cn/
http://www.szqxj.com/
http://www.tmst.org/
http://www.xiangshuntrade.com/
http://www.sd-video.com.cn/
http://www.9t56.com/
http://www.gfbio.com/

http://www.kin-good.com/
http://www.ynmalls.com/
http://www.ntzhentai.com/
http://www.jinlingjx.com/
http://www.hbpcjx.com/
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http://www.yihe333.com/
http://www.sdtaybl.cn/main/
http://www.feiyiads.com/
http://www.wxgrb.com/
http://www.0377zhuoer.com/
http://www.shen-hou.com/
http://www.kfwcn.com/
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http://www.dgsjgs.com/
http://www.bjhcee.com/
http://www.sjtxcm.com/
http://www.shentongcn.com
http://www.mycqc.com/
http://www.ahxingwang.com/
http://www.shdrzc.com/
http://www.sz-lys.com/
http://www.esunstar.net/
http://www.yifengmj.com/
http://www.023pbx.cn/
http://www.jdyun.com/
http://www.huashengktwx.com/
http://www.ksxjdjx.com/
http://www.smxjfjx.net/
http://www.xmshunji.com
http://www.liuhecnc.com/
http://www.fyhfsm.com/
http://www.mywzzn.com/
http://www.sqfenghuang.com/
http://www.gemkingbio.com/
http://www.jdquartz.com/
http://www.xinchenmingjidian.com/
http://www.zhddz.com/
http://www.resun110.com/
http://www.gd-jiuxin.com/
http://www.nntggm.com/
http://www.gd-jieju.com/
http://www.dgxlbj.com/
http://www.rzhaier.com/
http://www.mangshan.org/
http://www.168vod.com/
http://www.hljfwz.cn/
http://www.infowood.com.cn/
http://www.icprofast.com
http://www.nxyiguang.cn/

http://www.wzyishang.cn/
http://www.nxcarbon.cn/
http://www.anmailong.com/
http://www.ychlt.com/
http://gh.0937.net/
http://www.hbypzs.com
http://www.zjgmljy.com/
http://jpkc.sdpei.edu.cn/
http://www.hdd-mall.com/
http://www.ykdbgj.com/
http://www.jiabaogs.com/
http://www.shrj88.cn/
http://www.tianjinshuijing.com
http://www.fsyf.net/
http://www.xtwlxg.com/
http://www.wxerq.com/
http://www.huarongda.com/
http://www.jianmingvirtualave.net/
http://www.lanbin.cn/
http://www.liangliang-sh.com/
http://www.paintmc.com/
http://kx.yctc.edu.cn/
http://zhoubao.cun.edu.cn/
http://www.xmfzsh.com/
http://sk.dhxzxx.com/
http://plb.snnu.edu.cn/new/www/
http://www.tenso.cc/
http://www.jacoal.cn/
http://www.0578fcw.com/
http://www.bjwaxc.com.cn/
http://info.xnanyang.com/
http://www.dgshmyy.com/
http://www.rgbschool.com/
http://www.dfcjh.com/
http://www.dachenad.cn/
http://www.boyuan.net.cn/
http://sr.rpjyxxw.com/
http://www.prs8.com
http://www.028wxzx.com/
http://www.lanysz.com/
http://www.nxmthg.com/
http://www.nxfurenda.com/
http://www.nxxdhg.com.cn/
http://www.nxbfry.com/
http://www.tiandixincheng.com
http://www.fxdangjian.com/
http://www.nxlhcy.com.cn/
http://www.nxalading.com/
http://www.autotl.com/
http://www.cqyclg.com/

http://www.hxaf365.com/
http://www.sun-nyled.com/
http://www.daodaw.net/
http://www.xaenglish.com/
http://www.hbrenyuan.cn
http://www.hyjh.cn

118. [tapr-announce] DVDs of DCC2010 now available.

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-11-24 23:01:27 UTC
From: John Koster <w9ddd@tapr.org>
Message-ID: <Pine.LNX.4.44.1011241656520.16565-100000@localhost.localdomain>
Source record: 205
Cross-posted to: rec.radio.amateur.digital.misc,rec.radio.info

DVDs of the 29th DCC held in Vancouver, WA this past September are now available for order on the TAPR website.

There are DVDs for Friday AM and PM sessions as well as Saturday AM and PM. Also there are DVDs of the Saturday evening keynote speaker and the Sunday morning seminar.

Details are at:

http://www.tapr.org/pub_dvd.html

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73,
John, W9DDD

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tapr-announce mailing list

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119. music

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-11-26 14:29:25 UTC
From: jacks tevens <jacksseven@gmail.com>
Message-ID: <4c2daa25-7cf6-4a6e-a3b9-d80870107814@h17g2000pre.googlegroups.com>
Source record: 206

http://www.sz-changhe.com/
http://www.yufeizuche.com/
http://www.bjzx.org/
http://www.nmghm.com/
http://www.tkglgf.com/
http://www.2dingsoft.com/
http://www.dah626.com/
http://www.ftt365.com/
http://www.ahxinpai.com/
http://www.dhtoy.com/
http://www.dcspj.cn/
http://www.zltzl.com.cn/
http://www.bjaibs.com.cn/
http://www.hyxkcctv.com/
http://www.hyxtech.com/
http://www.scmspm.com/
http://hd-kuangye.com/
http://www.bxsd.net/
http://www.ypwang.com.cn/
http://www.hzlinjia.com/
http://www.csfs88.com/
http://www.huaruiyiliao.com/
http://www.xyfxkc.com/
http://www.hfaqhcx.com/
http://www.tyok.net/
http://www.shnbsy.com/
http://www.dlzhenghong.com/
http://www.lizhipu.com/
http://www.diaojiaji.com/
http://www.whwcjn.cn/
http://www.jnjpsk.com/
http://www.ylltdl.com/
http://www.apjinkangyuan.com/
http://www.jnqnzs.com/
http://www.vip7788.com/
http://www.wfjs88.com/
http://www.xdfpsg.com/default.asp
http://www.largehi.com/
http://www.sxztq.com/
http://www.xjts.net/
http://www.jcjhgc.com/
http://www.szbaorun.com/
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http://www.urainbow.net/
http://www.zbrym.com/
http://www.kayinapiano.com/
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http://www.cnpukang.com/
http://www.gtwiremesh.com/
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http://221.1.104.86/
http://www.wx-it.cn/
http://www.cy-zx.com/
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http://www.pld-pco.com/
http://www.dongfanggroup.net/
http://www.hbyxfy.com/
http://zfb.qhgem.gov.cn/
http://swb.qhgem.gov.cn/
http://www.hfauto4s.com/
http://www.0375job.com/
http://www.zhsyzx.com/
http://www.fsuniform.com/
http://www.hhdj.pte.sh.cn/
http://www.wdyzh.com/
http://www.trmuye.com/
http://www.longrunwinery.com/
http://www.gdsmd.cn/
http://www.xmtandiao.com/
http://www.gdtianren.com/
http://www.hzxiashi.com/
http://www.tj-tianwei.com/
http://www.iparkhotel.com/
http://www.fhoverseas.com/
http://www.weihai.jcy.cn/
http://www.hnnykj.com/
http://www.dgkj88.com/
http://www.dgmcwater.com/
http://www.ssdjd.com/
http://www.jydj.pte.sh.cn/index.asp
http://www.tczjs.com/
http://www.msmc.pte.sh.cn/
http://www.msnj.pte.sh.cn/
http://www.13k.pmjt.cn/
http://www.hshg.pte.sh.cn/
http://www.ewkwsj.gov.cn/
http://www.sxylly.gov.cn/
http://www.tyxjyj.gov.cn/
http://www.zjfashang.com/

http://www.zjuch.cn/
http://jgdw.lzu.edu.cn/
http://ces.lzu.edu.cn/
http://www.qtxny.gov.cn/
http://www.aosp.org.cn
http://www.znnxs.cn/
http://www.nychyh.com.cn/
http://www.neteb.com.cn/
http://www.sanyou-vae.com.cn/
http://www.szboyuan.net/
http://www.salionfood.com
http://www.xa-ocean.com/
http://www.sdzpmy.com/
http://www.sh-saili.cn/
http://www.ychyg.com/
http://www.jingsheng-cn.com/
http://www.biaobanghuashi.com/
http://www.rzgwl.cn/
http://www.xinyuanhuashi.com/
http://www.zjngjjc.com/
http://www.cn-greenbuilding.com/
http://wlsy.0937.net/
http://www.hbyscz.gov.cn/
http://www.bfkd.com/
http://www.chinagaoya.com/
http://023xh.com/
http://www.kmjrack.com/
http://www.dgrxhb.com.cn/
http://www.cengydj.pte.sh.cn/
http://www.bjpangu.com
http://www.czfenghua.com/
http://www.jthonda.cn/
http://www.sh-jtkj.com/
http://www.yddj.pte.sh.cn/
http://www.yhdj.pte.sh.cn/
http://www.qfdj.pte.sh.cn/
http://www.cheapuggbootss.com/
http://www.cheapuggbootss.com/ugg-bailey-button-fancy-boots-c-13.html
http://www.cheapuggbootss.com/ugg-bailey-button-triplet-boots-c-12.html
http://www.cheapuggbootss.com/ugg-classic-argyle-knit-boots-c-27.html
http://www.cheapuggbootss.com/ugg-classic-cardy-boots-c-26.html
http://www.cheapuggbootss.com/ugg-classic-crochet-5833-c-25.html
http://www.cheapuggbootss.com/ugg-classic-mini-boots-c-29.html
http://www.cheapuggbootss.com/ugg-classic-short-c-17.html
http://www.cheapuggbootss.com/ugg-classic-short-boots-c-16.html
http://www.cheapuggbootss.com/ugg-classic-tall-boots-c-18.html
http://www.cheapuggbootss.com/ugg-metallic-short-boots-c-14.html
http://www.cheapuggbootss.com/ugg-metallic-tall-boots-c-15.html
http://www.cheapuggbootss.com/ugg-nightfall-boots-c-22.html
http://www.cheapuggbootss.com/ugg-stripe-cable-knit-boots-c-28.html

http://www.cheapuggbootss.com/ugg-sundance-boots-c-24.html
http://www.cheapuggbootss.com/ugg-ultra-short-boots-c-19.html
http://www.cheapuggbootss.com/ugg-ultra-tall-boots-c-20.html
http://www.cheapuggbootss.com/ugg-bailey-button-boots-c-11.html

120. HOT ACTRESS

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-12-04 09:28:47 UTC
From: BASS <dalermehandi9247@gmail.com>
Message-ID: <ac1723f6-18a6-4d79-bcd7-a38df4167d9e@i32g2000pri.googlegroups.com>
Source record: 207

KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
FOR HOT MASTI
http://karomasti9.blogspot.com/
AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra

http://karomasti9.blogspot.com/search/label/bipasa
http://karomasti9.blogspot.com/search/label/thrisha
http://karomasti9.blogspot.com/search/label/srisha
http://karomasti9.blogspot.com/search/label/poonam

121. test

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-12-20 02:38:23 UTC
From: Lyn <from@me>
Message-ID: <4d0ec1a7$0$13392$afc38c87@news.optusnet.com.au>
Source record: 208

```
Sorry test
```

122. GOOD MEDICINE&HOT VIDEOS ,PHOTOS

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-12-30 07:54:59 UTC
From: BASS <dalermehandi9247@gmail.com>
Message-ID: <3de0faca-be61-4886-839a-38ca2982205e@r19g2000prm.googlegroups.com>
Source record: 209

SEXY DIYA MIRZA
http://karomasti9.blogspot.com/2010/12/diya-mirza.html
HOT AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aish.html
priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam

123. Re: RF Analog to Digital Converter

Newsgroup: rec.radio.amateur.digital.misc
Date: 2010-12-31 15:19:47 UTC
From: Jim Muth <muth119@gmail.com>
Message-ID: <6b30a085-707c-4460-8343-4a37f437b3a8@k13g2000vbq.googlegroups.com>
Source record: 210

On Nov 11, 7:34 am, ashwanthh <ashwanthh.721d...@radiobanter.com>
wrote:
> Hi all,
>
> Can anyone tell how many bit ADC to be used for the RF signal
> conversion upto 2Ghz
>
> --
> ashwanthh

i have icom r8500 recevier need converter to get digtial